Advantages & Features

GSM Wireless Security Alarm System

K7

◇ GSM Quad-Band 850/900/1800/1900MHz enable K7 works great in worldwide.

◇ 99 zones for home security intrusion alarm, elderly care, SOS help, 7*24 house
   safety applications.

◇ 10 different zone types and zone name editable.

◇ User friendly design.

◇ Two way talk, regular phone call as hand set supported, onsite voice monitoring
   available.

◇ 2 wireless switch channel for remote control & door access (*works with WS1,WS2).

◇ Just simply dial in to the K7, change the status to Arm / Stay Home / Disarm by
   missed call, or create voice talk automatically.

◇ Monitoring zone for take care of elderly daily life activities.

◇ Wireless sensors battery low power alarm.

◇ Backup rechargeable battery inside, AC power lost alert available.

◇ Audible alarm inside, support wireless siren too.

◇ Alarm events record can be read by SMS commands.

◇ Ademco Contact ID protocol over GPRS data supported.

◇ Fashion design of sleek panel with a classic elegant piano finish.

◇ Easy DIY--Smart phone APP on Google Play for configuration & operation.

How the system works for your family?

Security Protection

Press [icon] to arm the system when leaving home.

Press [icon] to arm the system when at home.

24hours Home Safety Guard

When smoke, gas, CO or water flood detected, system makes audible alarm, send alert SMS text and call to the alarm receivers/Call center/Firefighting or other CMS system.

SOS Alarm & Call

Press SOS button more than 2 seconds to make SOS Call.
System dial the 1st receiver number and then next numbers if no answering, totally repeat twice, and SOS alert SMS send to receivers at same time for asking SOS help. Other Wireless SOS button or fall detectors optional.

Make Phone Call

Dial phone number and then press Call button to start talk.
When alert receiver's phone call in, you can press Call button to answer and talk.
You can also press Call button to end the talk.

Open the Door

Press 0 1 and Key button [icon] to open your door (*if you have installed the WS1 wireless switch on your electronic lock).

1

How the system works for your family?

Elderly Daily Life Care

System sends alert SMS text if no activities detected by the 5th zone's PIR/Door sensor during the monitoring time period.
For example, install one wireless door sensor at your Dad's bed room, setting the monitoring time period as 05:30~09:00 am, if he didn't get up (didn't open his door) during that time, system sends alert SMS to the you says "Monitor Zone Alarm"---you can edit this SMS text for sure.
You will receive SMS text only for this event, no calls or audible alarm.

Door Bell

Install and connect one door bell button to the system, setting the zone type as "10.Door bell", when someone push the button, system makes 6 bell sound.

Read Alarm Events

You can send SMS commands to ask the last 5 alarm events record.

Other Living Care

System sends alert SMS text to you when AC/DC power lost (default: more than 30 minutes) and recovery, and when the wireless sensor's battery low power(if have).
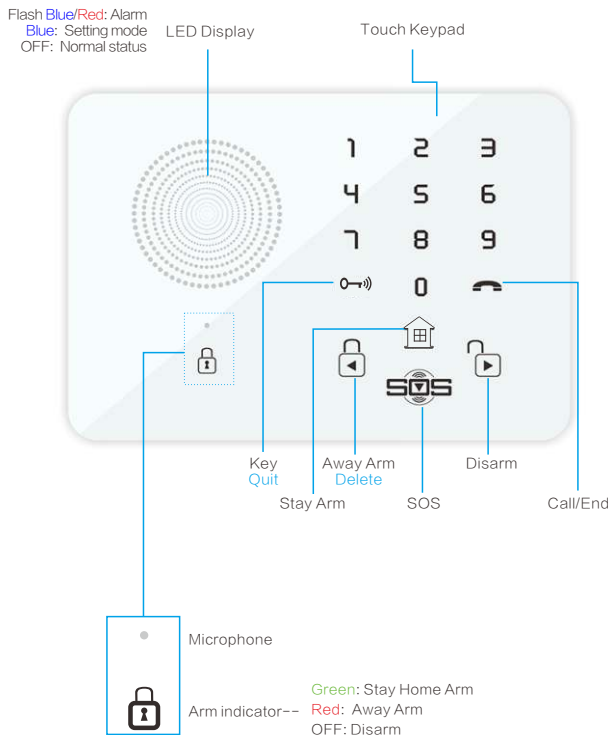
Remote Control

Connect with the alarm interlock relay, system will switch on/off home appliances auto-matically when alarm triggered.

Call in to control

Connect with the wireless switch, you can remote switch on/off home appliances by phone call.

2

Control Panel Layout

Flash Blue/Red: Alarm
Blue: Setting mode
OFF: Normal status

LED Display

Touch Keypad

Key
Quit

Away Arm
Delete

Disarm

Stay Arm

SOS

Call/End

Microphone

Arm indicator––
Green: Stay Home Arm
Red: Away Arm
OFF: Disarm

Key Buttons

Away Arm Button

Stay Arm Button

All the sensors are Armed except the sensors in Inner zones which disarmed so that users can move freely at home.

Disarm Button

Press Disarm button and 4 digits password (default: 1234), and press 📞 to disarm the system after two beeps.

SOS Call Button

Press the SOS button more than 2 seconds to make SOS alarm.

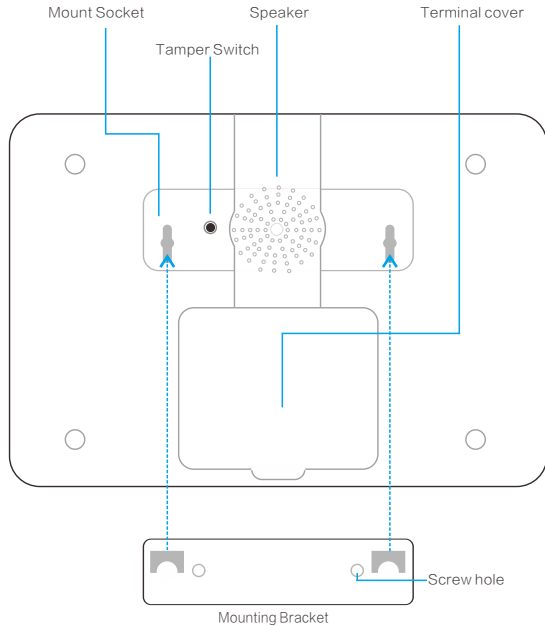### Call Button

Dial phone number and then press Call button to start talk or answer phone call in. You can also press the Call button to end talk.
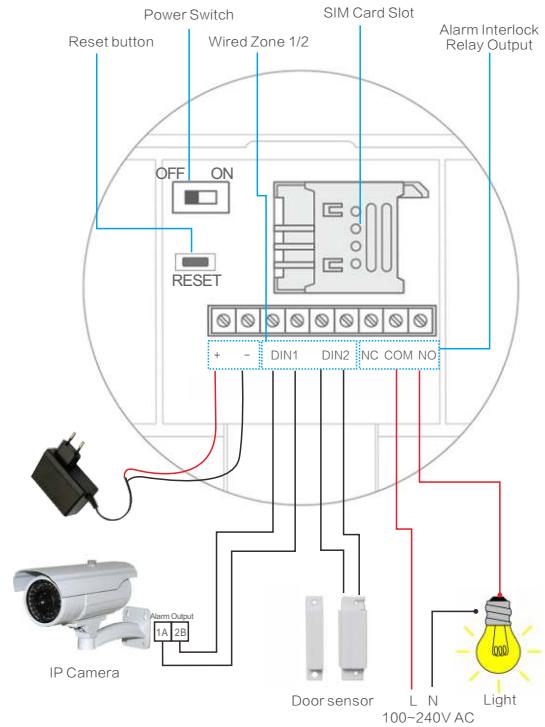
Key Button

Press 0 1 and Key button to open your door (*if you have installed the WS1 wireless switch on your electronic lock).

Bottom View

Mount Socket

Tamper Switch

Speaker

Terminal cover

Screw hole

Mounting Bracket

Install the bracket on the wall by using screws, after wiring connection and power on, plug the socket to the bracket tightly, make the tamper switch close. When plug out the socket, tamper switch will make alarm.

Wiring Connections

Power Switch

Reset button

Wired Zone 1/2

SIM Card Slot

Alarm Interlock Relay Output

OFF   ON

RESET

+   −   DIN1   DIN2   NC COM NO

IP Camera

Alarm Output
1A 2B

Door sensor

L   N
100~240V AC

Light

Easy Setting by Keypad

◇ Put the mobile SIM Card to the slot.

◇ Connect the power supply, Switch ON.

◇ System connecting to mobile network, blue and red LED flash.

◇ After connected to mobile network, blue and red LED off.

Enter to Setting Mode:

Press 📞 , red lights ON, enter password, press 📞 again, blue lights keeps ON

means the system enter to Setting mode.

On Setting mode, red LED flash shortly if setting success.

Exit Setting Mode:

After setting, Press ⊶)) , system exit Setting mode, blue lights OFF.

Or if no operation more than 1 minute, system exit Setting mode, blue lights OFF.

Setting by SMS Command:

◇ You can also setting other advanced parameters by APP or SMS commands while

   alarm system on working status.

* The SMS commands should with password, **1234** is the **default** password, please

   change it to new password if you had changed already.

* The command body AA, EE, etc. must be **Caps Lock**.

Reset

◇ Open the SIM Card cover, press and hold the Reset button.

◇ Switch ON.

◇ After one beep heard, release the Reset button, system back to factory mode, all

   sensors and settings will be delete (**Caution!**).

Change Password

▸ Press 0 1 and 4 digits password.

▸ Press 📞 .

▸ Default password: 1234

▸**By SMS Command:**
  1234P new password

  Default password: 1234
  e.g.: 1234P6666
  System return: 6666, This is the New
  Password, please remember it carefully.

Setup Date & Time

▸ Press 0 2 and yymmddhhmmss (12 digits,
  for example, 150723154013 stands for
  15:40:13,July 23, 2015.)

▸ Press 📞 .

▸**By SMS Command:**
  1234PY yymmdd H hhmmss #

  e.g.: 1234PY150723H154013#

  Or you can setting the alarm system's
  SIM Card phone number to get mobile
  operator's date & time from network:
  1234L phone number #

  e.g.: 1234L008613510150873#

Select Language

▸ Press 0 3 and two digits code (refer to below)

▸ Press 📞 .

  01. English
  02. Espanol
  03. Deutsch
  04. Pyccknn
  05. Italiano
  06. Dansk
  07. Cestina
  08. Francais
  09. Bahasa

If you changed menu language, you should reset the system and reboot again.
Caution: All settings and sensors are lost after reset except language.

Setup Alert Number (Alarm Receiver)

▶Press **0 5** and two digits position number(01~09), function code 1 (one digit, 1~3), function code 2(one digit, 1~3), telephone number (max. 20 digits).

▶Press 📞 .

By SMS Command:
▶1234position(1~9)Afunction code 1(1~3)#function code 2(1~3)#phone number#

for example, setting 00861351015 as the 1st alert number can receive SMS and call when alarm, in addition, when this number call in to the system, system answers the call automatically: **0 5 0 1 1 2 0 0 8 6 1 3 5 1 0 1 5** 📞 (1234**1**A**1**#**2**#**00861351015**#)

1. Total 9 Alert receiver numbers.
2. **Country code issue**: If you can't received the alert SMS or call, please try to change the country code as **0086**, **86** or just remove the country code on front of your phone number.

Receiver's phone number can be programming to below major functions:
Function code 1 (alarm notify method):
1 receive SMS and call when alarm.
2 receive SMS only when alarm.
3 receive call only when alarm.

Function code 2 (when this number call to system):
1 system changes status from Away Arm to Stay Arm.
2 system answers the call automatically.
3 system needs to press Call button to answer the call in.

Delete Alert Number

▶Press **0 5** and two digits position number(01~09).

▶Press 📞 .

▶**By SMS Command:** 1234position(1~9)A#

Inquiry Alert Number

▶ **By SMS Command:** 1234A#

Add Remote Control

The system supports 9 remote control for Arm/Disarm/Stay Arm system and make SOS alarm.

▶ Press **0 4** and two digits number(01~09).

▶ Press 📞 .

▶ Press the remote control.

▶ Two di di sound heard.

▶ Press 📞 button for confirm.

Delete Remote Control

▶ Press **0 4** and two digits number(01~09).

▶ Press 📞📞 .

Edit Wired Zone 1 & 2

The alarm system supports 99 zones, you can setting the zone functions for each zone.
The 1st zone: the SOS button on the keypad.
The 2nd zone: the tamper switch on bottom side.

The 3rd zone: the Wired Zone 1 (DIN1).
The 4th zone: the Wired Zone 2 (DIN2).

▶Setting 3rd zone's sensor type (Normally Close/Normally Open) by SMS command:
123403NC#
123403NO#

▶Setting the 4th zone's sensor type (NC/NO) by SMS command:
123404NC#
123404NO#

If you setting the 3rd and 4th zone sensor as NC, then you have to connect NC sensor on the DIN1/DIN2 port, otherwise system will make alarm once switch ON.

Zone Types refer to page 12.

Add Wireless Sensors

▶ Press **0 6** and two digits wireless zone number(i.e. 08,15, 32, etc).

▶ Press 📞.

▶ Trigger the wireless sensor, two di di sound heard.

▶ Press 📞 button for confirm.

Delete Wireless Sensor

▶ Press **0 6** and two digits wireless zone number.

▶ Press 📞📞.

You can setting 10 different zone types for each zone by SMS commands,

Zone Type

You can select 10 kinds of zone type for each sensor, so the system can fit your needs, the alarm system assigned default zone types for all zones before shipping to you, in addition, you can also change it as per needed by SMS Command:

▶ 1234D zone number(01~99)#type(0~9)#
 E.g.: change the zone 17 to type 3
 1234D17#3#   .

You can setting 2~5 zones type in one single SMS command:
E.g.: 1234D06#1#07#2#08#3#09#4#

Default Zone type refer to page 13.

Zone Type Explanation

Zone Type	When sensor triggered, the alarm system will	Used for	Sensors
1. Entrance	When you arm system: 30 seconds delay enter to arm mode, so you have time to leave home. When you back home: 20 seconds delay alarm, so you have time to disarm the system.	Main gate or lobby	Door sensors, PIR sensors
2. Outer	**Stay Home Arm:** Alarm **Away Arm:** Alarm	Intrusion protection outside of the house	Door, PIR, Been, Vibration, Glass breakage sensors.
3. Inner	**Stay Home Arm:** No alarm **Away Arm:** Alarm	Intrusion protection inside the house	CPIR, Door, PIR sensors
4. Onsite	**Stay Home Arm:** alarm sound only **Away Arm:** alarm sound, alert SMS and dial	Windows or rear gate	Windows contact, Curtain PIR
5. 24Hr Sound	Make alarm whenever Away, Stay Home or Disarm. System sends alert SMS, dial and audible alarm sound at same time.	Smoke fire, Gas, Water, CO leakage detection	Smoke, Heat, Gas, Water, CO detectors
6. 24Hr Silent	Make alarm whenever Away, Stay Home or Disarm. System sends alert SMS and dial only, no audible alarm sound.	Emergency help SOS alarm	Fall detector, Panic buttons
7. Armed	Shift to Away Arm mode.	Press to Arm the system, no need remote control.	Wireless buttons
8. Stay	Shift to Stay Home Arm mode.	Press to Stay Arm, no need remote control	Wireless buttons
9. Not Use	Disabled the sensor function.	Disabled the zone	
10. Door bell	Make 6 door bell sounds.	Door bell	Door bell buttons

Edit Zone Name

You can edit the zone name (alarm SMS content) for each zone by SMS command:
▶1234B zone number#zone name#

Zone number: two digits, such as 05, 08, 33, etc.
Zone name: Max. 40 characters.
E.g.: 1234B05#Dad didn't get up yet!#

▶You can inquiry zone name by sending SMS Command:
  1234B zone number#

Zone No.:	Default Zone Name	Type
01	SOS Help!	5
02	Tamper Switch Alarm	4
03	Wired Zone 3 Alarm!	1
04	Wired Zone 4 Alarm!	1
05	Monitor Zone Alarm!	Fixed
06	Entrance Alarm!	0
07	Zone 7 Alarm!	2
08	Zone 8 Alarm!	2
09	Zone 9 Alarm!	2
10	Zone 10 Alarm!	1

Zone No.:	Default Zone Name	Type
11	Zone 11 Spot Alarm!	3
12	Smoke Detector Alarm!	4
13	Water Leakage Alarm!	4
14	Gas Leakage Alarm!	4
15	Panic Help Alarm!	4
16	Emergency Silent Alarm!	5
17	Zone 17 Alarm!	2
18	Zone 18 Alarm!	2
...	...	2
99	Zone 99 Alarm!	2

Unique Monitoring Zone (No.5)

The special zone type for take care of elderly, FIXED in **the 5th zone** only.

System sends alert SMS to the 1st receiver if the sensor did not triggered during monitoring time period, this function works on **Stay Home Arm mode** only, if you changed the system to Away Arm or Disarm status, the monitoring function will be ignored automatically.

The purpose of this Monitoring Zone:
Take care of elder people's activities on daily life.

For example, install one wireless door sensor at your Dad's bed room, setting the monitoring time period at 05:30~09:00, If he didn't get up (didn't open his door) during that time, system send SMS text to you says "Monitor Zone Alarm!"
The monitoring zone alarm will not make phone call or audible alarm sound.

Recommend sensors:
Wireless door sensors, Curtain PIR motion sensors.

Setting the monitoring time by SMS:
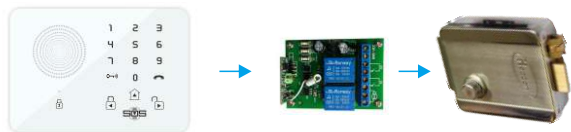▶1234Q start time(hh:mm)#end time(hh:mm)#

  e.g.: Monitoring time period from 05:30 am to 09:00 am:
     1234Q05:30#09:00#

  Inquiry Monitoring Time:
▶1234Q#

Remote Access Control(Wireless Switch)

Works with the wireless switch WS1 (optional), you can remote open your electronic lock or other devices by pressing **0 1 ⌐→»)** or control by incoming phone call.

Add wireless switch steps:
1. Connect WS1 relay output to the electronic lock as a switch.
2. Connect 12VDC from your lock to the WS1.
3. Press the learning button on WS1, LED flash quickly.
4. Press **0 1 ⌐→»)** , WS1 LED off, connection created.
5. Press **0 1 ⌐→»)** for test.

How to open the door by phone call

You can also call in to open your door or other devices by interlock settings(your phone number must on the alert numbers list, Caller-ID), setting method as below:

1. **0701** ☎ Interlock Armed by call: when you call in, system reject and recall back to confirm the arm success (you should reject the system's recall), and open your door at same time.
This setting will help you to open the garage or main gate when leaving home by a single phone call.

2. **0702** ☎ Interlock Stay by call: you should call the system twice within 30 seconds to change the status to Stay Home Arm mode, and open your door at same time.
This setting will help you to open the garage or main gate when back home.

3. **0703** ☎ Disabled the remote access control interlock function.

Connect with Wireless Siren

The alarm system inbuilt audible alarm function, in addition, you can also connect with the wireless siren SR-60 (*optional) to make loudly alarm.
Just connect the power adapter of wireless siren is OK, then you can press **0 2 ⌐→»)** to test if the siren is working or not.

Wireless Coding

The alarm system provide 3 different wireless code for transmitting, SR-60 wireless siren belonging to the
Code 1 (default): **0801** ☎

If you want to use the alarm system to operate other device but not the SR-60, select code 2 or code 3 and then programming the wireless switch as same as above mentioned on page 15 is OK.

Code 2: **0802** ☎

Code 3: **0803** ☎

Arm Delay Time

SMS Command:

▶1234**G**xx**#**

xx=arm delay time, two digits number, unit: second.
e.g.: 1234G20#

Default arm delay time: 30 seconds.
Only the zone type=1/2/3 effected by the arm delay time.

Tips: When you using the remote control to arm the system, press the Away Arm button and SOS button immediately, system will enter to arm status without any delay.

Arm Sound Notification

When you Away Arm the system, after the internal buzzer makes one long beep, the wireless siren (*if connected) can makes 2s sound for confirmation too.

▶You can enable(ON) or disable(OFF) this function by below SMS commands:
  1234**GON#**
  1234**GOFF#**

Default: OFF.

Arm Notify SMS

When you Arm/Disarm the system by SMS or Arm/Away Arm the system by phone call, the system will send notify SMS "Arm by xxx" or "Disarm by xxx" to the 1st receiver.

▶You can enable or disable(default) this function by below SMS commands:
  Enable: 1234**H#**
  Disable: 1234**J#**

Alarm Delay Time

SMS Command:
▶1234**F**xxx**#**
  xxx=alarm delay time, three digits number, unit: second.
  e.g.: 1234G030#

Default alarm delay time: 0 second.

Tips: When sensors triggered and enter to alarm delay time, the internal buzzer makes short beeps every 2 seconds till delay time over, so you have time to disarm the system before really alarm (beeps stopped).

Alarm Sound Time

SMS Command:
▶1234**E**xxx**#**
  xxx=alarm sound time, three digits number, unit: second.
  e.g.: 1234G030#

Default alarm sound time: 180 seconds.

The alarm sound will take a short pause (1s) after every 20 seconds.
Only the zone type=1/2/3/4/5 effected by the alarm sound time setting.

Alarm Interlock Relay Control Time

You can setting how long the alarm interlock relay keep close when alarm triggered:
▶1234**RT**time(000~999)
  E.g.: 1234RT005
  Default: 1 second(latch)

Wireless switch control time

You can setting how long the wireless signal keep sending to the wireless switch to open the door(or other devices) by SMS command:
▶1234**GT**time(000~999)
  E.g.: 1234GT005
  Default: 1 second(latch)

AC Power Lost Alert

When the AC/DC adapter power lost, system will send alarm SMS, you can setting the monitoring time(minute) of power lost by SMS command:

▶ 1234**M**time(00~99)**#**

E.g.: 1234M60#
Default: 30 minutes, if setting to 00, system will send alarm SMS once power lost.

GPRS Data Function (for engineer only)

For engineer and remote server system only.
Please ignore this part if the total quantity of the alarm system deployed less than 200pcs.

GPRS APN setting:

▶ 1234**APN**apn name;user name;password**#**

Notice: please call your mobile operator to ask the GPRS Access Point Name, User name, Password, if there have no User name or Password needed for the GPRS data connection, then leave it blank.
E.g.: 1234APNeverywhere;eesecure;secure#
the example APN name(everywhere), User name(eescure) Password(secure) supported by Orange UK.

Contact ID CMS server IP address and Port:

▶ 1234**IP**server IP address;port**#**
E.g.: 1234IP175.164.49.20;4005#

Alarm Process

Alert SMS ➔ GPRS data to CID Server system ➔ Alarm dial out

GPRS data upload to server system depends on the alarm events(trigger) automatically, data connection off line when data send complete, the alarm system can't receive data from server. GPRS data follow the Contact ID (SIA DC-9) protocol.

Quick Operating SMS Commands

Arm	1234AA
Disarm	1234BB
Alarm Sound ON	1234CC
Alarm Sound OFF	1234DD
Inquiry Status	1234EE
Remote Listening In	1234K#

System recalls you back for remote listening in the on site voice.

Inquiry Alarm Events   1234R

System sends last of 5 alarm events:
2015-06-04 11:35:03 Remote Key SOS Help!
2015-06-05 00:35:03 Smoke Alarm!
2015-06-05 09:31:03 Monitor Zone Alarm!
...

Reboot System   1234RESTART

Specifications

GSM Frequency	Quad-band 850/900/1800/1900 MHz
Wireless Zones	95
Radio Frequency	433.92MHz for sensors, 315MHz for wireless switch (*optional)
Wired Zones	2, NC/NO dry contact
Tamper Switch Zone	1, at back side of panel
Digital Output	1 relay, NC/NO dry contacts,3A/240VAC
Stored Phone No.	9 phone numbers for alarm SMS & call
Max. Remote Control	9 pcs
Event Logs	SMS command inquiry last 5 logs
Internal Audible Alarm	95dB
CMS	KingCenter CMS-01, CID CMS (GPRS data)
Rated Power Supply	9~24V DC/1A
Power Consumption	12V input Max. 270mA, Standby 30mA
SIM Card	Support 3V SIM Card
Antenna	50 Ω SMA Antenna interface
Temperature Range	-20~+60 ° C
Humidity Range	Relative humidity 90% (condensing free)
Backup Battery	3.7V/900mAH Li-ion rechargeable
Exterior Dimension	18.8*13.1*2.8 cm (7.4*5.1*1.1 inch)
Net Weight	320 g (0.7 lb)

Safety Directions

Safe Startup
Do not use the alarm system when GSM/3G equipment is prohibited or might bring disturbance or danger.

Interference
All wireless equipment might interfere network signals of the alarm system and influence its performance.

Avoid Use at Gas Station
Do not use the alarm system at a gas station. Power off it when near fuels or chemicals.

Power it off near Blasting Places
Please follow relevant restrictive regulations. Avoid using the device in blasting places.

Reasonable Use
Please install the product at suitable places as described in the product documentation. Avoid signal shielded by covering the mainframe.

Use Qualified Maintenance Service
Maintenance can be carried out only by qualified person.