



Remote switching machines with a FREE call from your mobile phone!

Remote inquiry the status with a FREE Call from your mobile phone!

Inquiry the Counter Value with a FREE Call from your phone!

GSM Remote Switch GSM SMS Controller Alarm GSM SMS Pulse Counter Alarm



User Manual

Ver 1.1

RTU5016

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Pigeon Hi-Tech. Co., Ltd.

www.GSM-M2M.com



GSM Remote Switch GSM SMS Pulse Counter Alarm

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This handbook has been designed as a guide to the installation and operation of RTU5016 GSM SMS Pulse Counter Alarm Controller.

Statements contained in the handbook are general guidelines only and in no way are designed to supersede the instructions contained with other products.

We recommend that the advice of a registered electrician be sought before any Installation work commences.

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SMS Command List

SMS COMMAND	Functions & Actions	Very Important! Please fill the Installation Schedule at last Page before programming it.
AA	To arm the Unit, in this mode, digital inputs triggered will alarm.	
BB	To disarm the Unit, in this mode, digital input triggered will not alarm.	
CC	To switch ON the Relay Output X and Y;	
DD	To switch OFF the Relay Output X and Y	
EE	Inquiry the Unit Status.	

***The commands should plus Password, the format is Password+SMS Command. i.e.: if the password is 1234, then you can send **1234AA** to arm, **1234BB** to disarm, the AA~EE must be Caps Lock.**



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1. Brief introduction

The GSM SMS Pulse Counter Alarm Controller RTU5016 is a very simple programmable I/O ports (2DIN, 2DOOUT, 1 PIN) and cost effective GSM RTU which special for remote pulse counter monitoring, also it can be used for remote switching machine, automation system and other applications.

It equips one Pulse Counter input, the range is 00000~99999. The user can setup start value, interval alert value alert, interval time to alert, total value to alarm, when total value alarm occurrence, it can active one or both of the relay outputs and send programmable SMS and dial to authorized phone numbers.

Just dial from Authorized User number then one of the two relay output or any one of the relay output will be switched on or off. There are no call costs, the GSM SMS Controller Alarm rejects the call from authorized number then carries out the turn ON/OFF action.

Moreover, the RTU5016 with 2 digital inputs for digital inputs, when any one of the inputs triggered, will activate one or both of the relay outputs, in the meanwhile, the RTU5016 will send SMS Alert to owners immediately. This is very useful if you need protect your assets with low cost solution.

In one word, the GSM SMS Pulse Counter Alarm Controller RTU5016 is the best choice for lots of pulse counter related applications.

2. Safety Directions



Safe Startup

Do not use GSM unit when using GSM equipment is prohibited or might bring disturbance or danger.



Interference

All wireless equipment might interfere network signals of GSM unit and influence its performance.



Avoid Use at Gas Station

Do not use GSM Gate Opener at a gas station. Power off GSM unit when it near fuels or chemicals.



Power it off near Blasting Places

Please follow relevant restrictive regulations. Avoid using the device in blasting places.



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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 maintainer.

3. Standard Packing List

Control Unit X1, GSM ANT X1, User Manual X1(CD), Connector X1,AC/DC Adaptor X1.

Optional Accessories: (Wired Sensors)

PIR Motion Sensor, Glass Break Sensor, Magnetic Window Sensor, Temperature Sensor, Infrared Beam Fence, Vibration sensor, Siren, etc.

4. Mainly Features

- ✓ Can be operated from anywhere, no distance limitation, Android App and iOS App iKeypad for quickly operation;
- ✓ Din Rail 35mm installation;
- ✓ No call charges. the GSM SMS Controller rejects the call from authorized number then carry out the programmable actions on the first 'ring';
- ✓ Multiple applications. (gates, barriers, temperature, pulse counter, humidity, machines, automation systems);
- ✓ Secure - Using caller ID and password for identification, unknown callers are ignored;
- ✓ Programmable by SMS Commands with password protection;
- ✓ External AC Power monitoring, AC On/OFF will send SMS to authorized phone numbers;
- ✓ Timer Report—Can setup every x hours automatically send its status/Value to the authorized numbers;
- ✓ Rechargeable Backup Battery inside can last 18hours;
- ✓ Upto 6 authorized phone numbers, each number can be used to receive call or SMS or both of call and SMS while alarm occurrence;
- ✓ Authorized phone numbers can be used for dial to switch ON/OFF one or both of the relay outputs, inquiry status, armed or disarmed;
- ✓ Two digital outputs (dry contact, NO) with relay rating 10A/240VAC for connecting the switch of the air conditioner or machines, the outputs can setup as always ON, Pulse output, by SMS, authorized phone number dial in, and alarm events;
- ✓ Two Digital inputs (Dry Contact, NC/NO) for door sensor, motion sensors or other sensors, the input activated can active one or both of the relay outputs and send programmable SMS and dial to authorized phone numbers;
- ✓ One Pulse Counter input, can setup start value, interval alert value, total alarm can active one or both of the relay outputs and send programmable SMS and dial to authorized phone numbers;

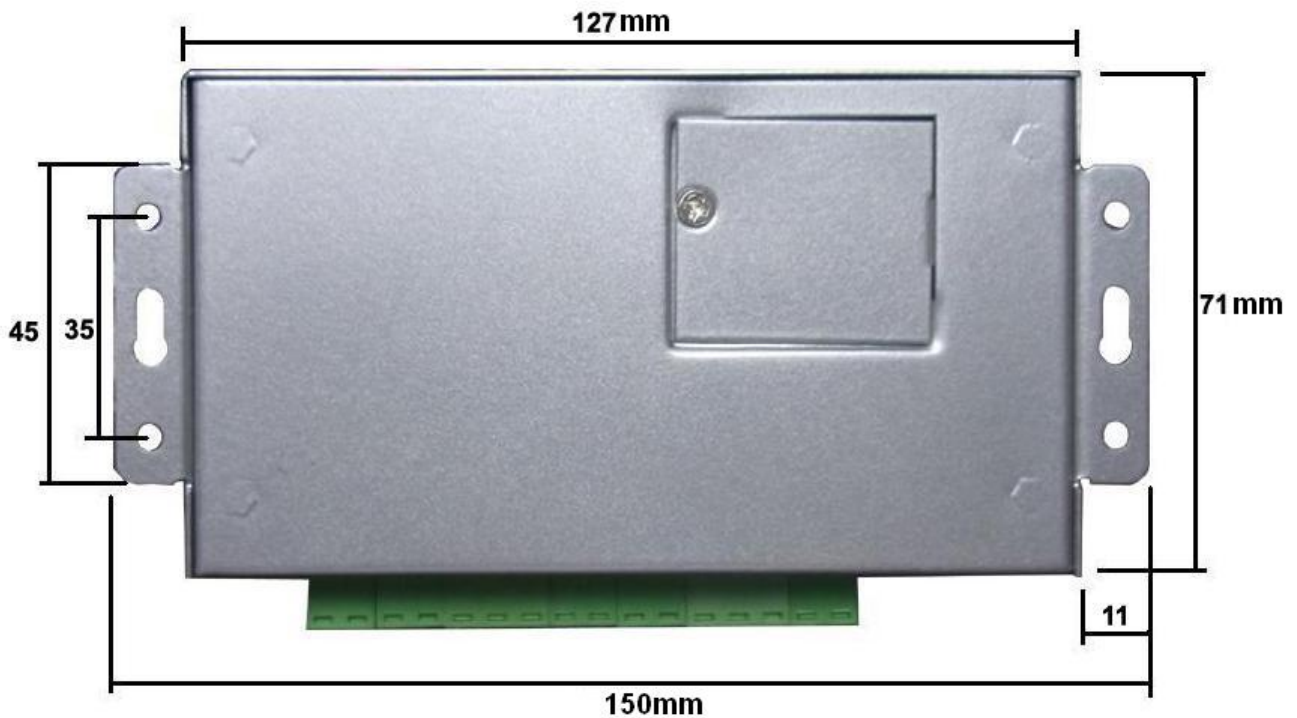


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✓Based on GSM Network, applied to many applications.

5. Physical Layout and Installation Diagram

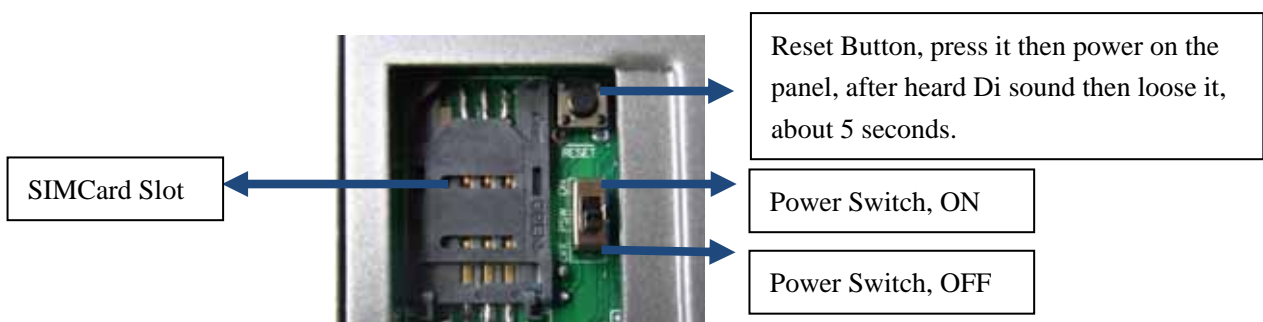
5.1 Control Unit physical layout



LXHXW= 150mm*31mm*71m

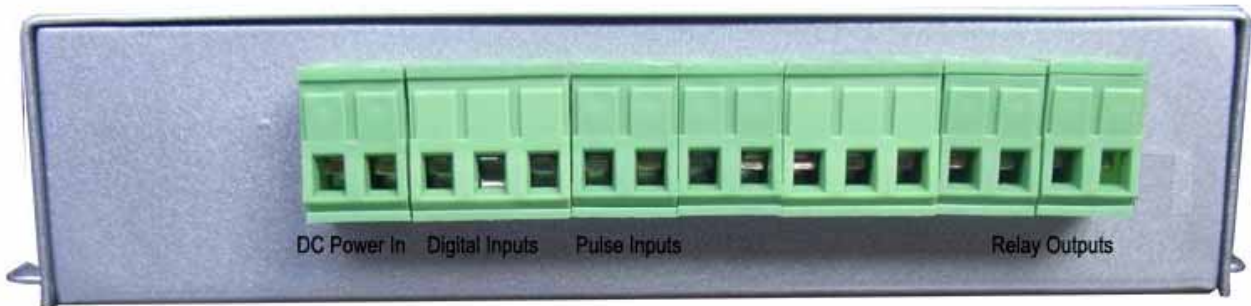
5.2 Interface Instructions for installation

At the backside of the panel, please use the tool to remove the screw, and you can see the below:





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Interface Instruction

GSM ATN	GSM ATN, for contacting the external GSM Antenna, 50MOhm, SMA Male.	
POWER	External DC Power status LED indicator	
ALARM	When alarm occurrence will On, otherwise is OFF.	
RELAY	Any One or both of the two relay outputs close will ON, otherwise will OFF.	
GSM	GSM Module Status indicator, registering GSM Network flicks quickly, registered successful flicks slow. No GSM Signal will be off.	
Connector Interface		
DC8~24V	+	DC8~24V positive input, 2A, for power on the GSM Unit.
	-	DC8~24V negative input, 2A, for power on the GSM Unit.
Digital Input	DIN1	Digital Input 1 Positive, Dry Contact, NC/NO



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	GND	Digital GND
	DIN2	Digital Input 2 Positive, Dry Contact, NC/NO
Pulse Input	PIN	Pulse Input
	GND	Pulse GND
Relay Outputs	X +	Relay Output X, Positive, Dry Contact, NO Type, 10A/240VAC
	X -	Relay Output X, Negative, Dry Contact, NO Type, 10A/240VAC
	Y +	Relay Output Y, Positive, Dry Contact, NO Type, 10A/240VAC
	Y -	Relay Output Y, Negative, Dry Contact, NO Type, 10A/240VAC
Inner Temp.	Inner Temperature Sensor, will be invalid after contacted external temperature sensor at the Temp. input.	

6. Programming and Operation

Notice:

1. The default Password is **1234**.
2. After power on the unit, the buzzer will alert by 1 long Di sound to alert, if the MCU can not communicate to the GSM Module or not find out the SIMCard or Simcard installed failure or no gsm signal more than 5 minutes, the buzzer will alert twice short Di Di (0.5 second) to alert. After 1 minute the event still exist, then will alert again. If the alarm occurrence, the buzzer will sound 1 minute (Sound 20 seconds then stop 1 second, then continue to sound 20 seconds, total is 1 minute) to warn the users.
3. All the settings are through SMS commands, please edit the below SMS commands in your cell phone, then send to the GSM unit. The unit cannot support PIN Code Protected SIMCard.
4. You can program the GSM unit with SMS commands using your phone. It is safe to do so because in addition to the fact that other people may not know the number of the SIM inserted in it, we also use a Password that makes it impossible for anybody, who doesn't know it, to access the system by chance.
5. Remember that commands must be **CAPITAL LETTERS**. It is PWD not pwd, CAP not Cap etc. Don't add spaces or any other character.
6. The **pwd** in the commands is means the password, when you use it, please in stand of it by the digital number; the capital letters **PWD** is the command letter, use PWD directly.
7. In some GSM operators they use different SMS parameter; the units can't return the SMS confirmation in some gsm operators, but it can performance the functions correctly. Also, you can try to add the country code before the number, see the below settings:



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For example:

E.g.: the country code is **0086**, or **+86**.

The user cell phone number is **13600000000** and has been assigned as a SMS Alert number, the simcard number in the panel is **13512345678**.

When you setup the number as the authorized number, please setup as 008613600000000 or +86136000000000. Not 13600000000.

8. If the password is correct but the the command is incorrect, the RTU5019 will return: **SMS Format Error, Please check Caps Lock in Command!** So please check the Command, or add the country code before the telephone number or check the input is in ENGLISH INPUT METHOD and CAPS LOCK. If password incorrect then will not any response SMS.
9. Once the GSM Unit received the SMS Command, will return SMS to confirmation, if no SMS return, please check your command or resend again.
10. The SMS commands that you will certainly use in the GSM units are the following:

6.1 Setup New Password

pwd+P+newpassword

pwd is the GSM Unit password, default is 1234.

P is the identification character of this command.

if successful, the unit will return: **new password,This is the New Password, please remember it carefully.** The password is 4digits.

For example, the original password is 1234, you want change it to 6666, then you can send the command below: **1234P6666**

6.2 Setup Authorized number

The GSM Unit supports upto 6 authorized phone number, each number can be setup as different rights to receive alarm message and access the GSM unit.

pwd+##+Serial Number+A+Function 1 Code+##+Function 2 code+##+Telephone Number+##

Serial Number = 1~6.

A is the identification character of this command.

Function 1 Code =1,2,3. It is for alarm receiving attribute setting.

=1 stands for when alarm occurrence, the GSM unit will dial as well as send SMS to this number.(The SMS Number Format must be the Same as the Dial Number Format, include or not includes Country code.)

=2 stands for when alarm occurrence, the GSM unit only send alarm SMS to this number, doesn't dial.

=3 stands for when alarm occurrence, the GSM unit only dial this number, doesn't sends SMS.

Function 2 Code =0,1,2,3,4. It is for accessing GSM unit attribute setting.

=0 stands for when this number dial to the GSM unit, will be rejected after the first ring, meanwhile, the



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GSM unit will be changed to Armed Mode and return SMS. This is very useful when the user want to change the GSM Unit to Armed mode with a FREE call from its mobile phone! When the user dial the GSM unit again, the GSM unit will be changed to Disarmed mode and return SMS to ensure the operation is successful.

=1 stands for when this number dial to the GSM unit, will be rejected after the first ring, meanwhile, the GSM unit will report the GSM Unit's status.(The return SMS is the same as command pwd+EE)

=2 stands for when this number dial in the GSM unit, will be rejected by the first ring, and both of the Relay output X and Y will close and last the programmable time, till timeout or dial in again, the relays will open and return SMS to confirmation. (The programmable time please see 6.5 about **Setup Timeout for authorized number dialing in**)

=3 stands for when this number dial in the GSM unit, will be rejected by the first ring, and the Relay output X will close and last the programmable time, till timeout or dial in again, the relays will open and return SMS to confirmation.. (The programmable time please see 6.5 about **Setup Timeout for authorized number dialing in**)

=4 stands for when this number dial in the GSM unit, will be rejected by the first ring, and the Relay output Y will close and last the programmable time, till timeout or dial in again, the relays will open and return SMS to confirmation.(The programmable time please see 6.5 about **Setup Timeout for authorized number dialing in**)

Telephone Number: authorized number, max. 18 characters,

E.g.: if you want to setup 13512345678 as the third authorized number, and the password is 1234, country code is 0086, when alarm occurrence this number can receive both SMS and incoming from the GSM Unit, when dial to the GSM Unit from this number, can change the GSM Unit to Disarmed or Armed mode. Then you can send **1234#3A1#0#008613512345678#** to the GSM Unit. Will return:

Tel1: Empty

Tel2: Empty

Tel3: 008613512345678-1-0 stands for function 1 code =1 and function 2 code =0 value.

Tel4: Empty

Tel5: Empty

Tel6: Empty

Inquiry the Authorized number

pwd+A+#

After received this command,the GSM Unit will return the SMS as abovementioned.

E.g.: If you want to know the authorized number list, and the password is 1234, then you can send **1234A#** to check it.

Remove the Authorized Number

pwd+#+Serialnumber+A+#



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Please overwrite it with another new number or removed it by this SMS Command.

6.3 Setup Digital Input Attributes

The GSM Unit supports 2 dry contact digital inputs, the NC/NO can be modified, and also can setup while the digital input active how does the relay outputs active.

The digital inputs only alarm in Armed mode, in disarmed mode, the digital input active will not cause any alarm. When the digital input active in Armed, will send the programmable text message to the authorized numbers to alert the user firstly, then automatically dial the authorized numbers one by one till any one answer the call or 3 times in cycles.

The SMS Command is

```
pwd+#+Serialnumber+# +X+ close time+#+Y+close time+#+inputtype+#
```

Serial Number = 1,2, stands for digital input 1 or digital input 2;

X/Y: stands for relay output X and Y;

Close time=0000~9999, unit is Second, Stands for while Digital input active, how many seconds does the Relay Output X and Y should close and last. When =0000 then stands for the relay will always close, must open it by SMS Commands. When =9999, then stands for this relay will not carry out any action. The default is 9999 for both of the X and Y.

Inputtype=NC,NO, stands for the digital input type. NC is normally close, when open will active, NO is normally open, when close will active. The default is NO. If the sensor which you used with this unit is NC, then you should set the unit as NC type. if the sensor is NO, then you should set the unit as NO type. when you set the digital inputs as NC, if you don't use the input, please connect the digital inputs by a wire to short it. Otherwise, it will alarm.

E.g.: the password is 1234, and setup while digital input 2 active, the relay output X close 100S, the relay output Y always close, the digital input type is NC. Then send the SMS `1234#2#X0100#Y0000#NC` to the GSM Unit. After the GSM Unit received, will return: `X0100#Y0000#NC#Alarmtextmessage#`

Modify Digital Input Alarm SMS Text Message

The user can modify the digital inputs alarm SMS message by the following command; the SMS Alert message should less than 30 letters.

```
pwd+#+Serialnumber+M+#Alarmtextmessage#
```

Serial Number = 1,2, stands for digital input 1 or digital input 2;

M is the identification character of this command.

Alarmtextmessage: stands for the alarm SMS message, max.30characters. the default is: `DIN1 Alarm!`

for the digital input 1 and `DIN2 Alarm!` for the digital input 2.

Inquiry Digital Input Attributes



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pwd+F+Serialnumber+#

Serial Number = 1,2, stands for digital input 1 or digital input 2;

F is the identification character of this command.

After received this command, the GSM Unit will return: **X****#Y****#NC#AlarmTextMessage#**

6.4 Setup Pulse input counter Attributes

The GSM Unit accepts 1 pulse input for counter, the user can setup the beginning value, interval counter report value, interval time and total alarm value, what actions does the relay outputs should carry out, etc. Please see below to setup the pulse input attributes:

The command is:

pwd#P#X**#Y****#ST****#SP****#TL****#**

P is the identification character of this command.

X/Y: stands for relay output X and Y;

X**/Y******: the Relay Output Close time=0000~9999, unit is Second, Stands for while the pulse input counter reached the total alarm value, how many seconds does the Relay Output X and Y should close and last. When =0000 then stands for the relay will always close, must open it by SMS Commands. When =9999, then stands for this relay will not carry out any action. The default is 9999 for both of the X and Y.

ST****: ST is the identification character of this command. Stands for the start counter value.

****=00000~99999. Default is 05.

SP****: SP is the identification character of this command. Stands for the interval value to alert the user, ****=00000~99999, =99999 stands for disable this function. when the counter range changed exceed this value, will send SMS to alter the user. Will not affect the relay outputs. The SMS Content is:

Counter Alarm!
Start Value is: xxxxx
Current:xxxxx
Interval:xxxxx
Total:xxxxx
Relay X is ON/OFF;
Relay Y is ON/OFF;
AC Power is ON/OFF.

Tips: *If no need interval alert function, then please remove the SP****# in the command. The command should be **pwd#P#X****#Y****#ST****#TL****#***

TL****: TL is the identification character of this command. Stands for the counter total alarm value,

****=00000~99999, =99999 stands for disable this function. when the counter value reached this value, will send SMS to the users and also affect the relay outputs. The SMS Content is:



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Counter Alarm!
Start Value is: xxxxx
Current:xxxxx
Interval:xxxxx
Total:xxxxx
Relay X is ON/OFF;
Relay Y is ON/OFF;
AC Power is ON/OFF.

Tips: If no need total value alarm function, then please remove the TL****# in the command. The command should be `pwd#P#X****#Y****#ST****#SP****#`

Inquiry Pulse Input Counter Attributes

The user can send SMS Command to inquiry the settings, the command is:

`pwd+C+#`

6.5 Setup Digital Output Attributes

The GSM Unit inbuilt two Dry Contact digital output relays, the rated is 10A/240VAC, it can be used for connecting the switch of the air conditioner or machines, the outputs can setup as always ON, Timeout OFF, Pulse output, by SMS, authorized phone number dial in, and alarm events.

The SMS Commands for setting and operating them are below:

Switch ON the Relay X and Y:

`pwd+CC`

Will return: `Relay X+Y ON.`

Switch OFF the relay X and Y:

`pwd+DD`

Will return: `Relay X+Y OFF;`

Switch ON the Relay X:

`pwd+CX`

Will return: `Relay X is ON.`

Switch OFF the Relay X:

`pwd+DX`

Will return: `Relay X is OFF.`

Switch ON the Relay Y:

`pwd+CY`

Will return: `Relay Y is ON`

Switch OFF the Relay Y:

`pwd+DY`

Will return: `Relay Y is OFF`

Setup Timeout for authorized number dialing in



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When dial in to Switch on the relay, the relay close time can be setup, and the relay will automatically switch off till re-call in or timeout.

For Relay Output X, the command is:

pwd+XC****

**** =0000~9999, unit is Second, Stands how many seconds does the Relay Output X should close and last. When =0000 then stands for the relay will always close, must open it by SMS Commands. When =9999, then stands for this relay will not carry out any action. The default is 9999.

Will return: **Relay X ON** to the call in number. When call in again or timeout, the relay will automatically open, and send SMS alert to the user: **Relay X OFF**.

For Relay Output Y, the command is:

pwd+YC****

**** =0000~9999, unit is Second, Stands how many seconds does the Relay Output Y should close and last. When =0000 then stands for the relay will always close, must open it by SMS Commands. When =9999, then stands for this relay will not carry out any action. The default is 9999.

Will return: **Relay Y ON** to the call in number. When call in again or timeout, the relay will automatically open, and send SMS alert to the user: **Relay Y OFF**.

Tips: if both of the relay X and relay Y were setup the timeout, then when the authorized number call in, both of them will be switched on, and return SMS: **Relay X + Y ON**. Re-call or timeout then will return each relay's status.

Pulse Output SMS Commands:

The user can send SMS to switch on/off the relays once or more times to make it output pulse type.the Command is below:

pwd+nP*L***T****

n: =X or Y, Stands for relay Output X or Y;

P*:** P is the identification character of this command. ***=000~999, unit is second, stands for how long the relay X will keep for close then open.

L*:** L is the identification character of this command. ***=000~999, unit is second, stands for interval open time.

T:** T is the identification character of this command, **=00~99, stands for the relay should close how many times.

After the GSM Unit received this command, will return: **Executed** to confirmation.

6.6 Armed/Disarmed the GSM Unit



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The user can Armed or Disarmed the GSM Unit by SMS Commands or authorized number dial in. In Armed Mode, the digital input active will alarm, in disarmed mode, the digital input active will not alarm. When alarm occurrence, will send programmed SMS text message and automatically dial the authorized numbers one by one, till answer the call or timeout in 3 cycles.

Tips: *The other inputs(Pulse input, temperature sensor, analog input)active, no matter in armed or disarmed mode will occurrence alarm immediately.*

The Armed Command is:

pwd+AA

Will return: **Armed**

The Disarmed Command is:

pwd+BB

Will return: **Disarmed**

6.7 Inquiry the GSM Unit current status

The user can inquiry the GSM Unit current status by SMS command or authorized number dial in.

The SMS Command is:

pwd+EE

Will return:

DIN: 0/1;0/1 (0 stands for open, 1 stands for closed)
Counter: xxxxx;
Relay X: ON/OFF;
Relay Y: ON/OFF;
Armed/Disarmed;
GSM Signal is xx;
AC Power is ON/OFF.

6.8 Setup Automatically report attributes

The user can setup interval time to report the GSM Unit current status to the specified number.

The SMS command is:

pwd+D*+#+specified number+#**

D*:D** is the identification character of this command. ***=000~999, unit is hour, stands for how many hours does the GSM Unit should report its current status to the specified number.

specified number: a mobile phone that the GSM Unit will send the SMS to it. Usually is administrator number or monitoring center number.

Inquiry Automatically report Attributes Setting

The user can send SMS Command to inquiry the settings, the command is:

pwd+D+#



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6.9 Inquiry the IMEI Code and firmware version

The user can inquiry the IMEI Code and the firmware version by SMS command, the SMS Command is:

pwd+E+#

6.10 External AC Power Status Monitoring

The GSM Unit will automatically monitoring the external AC power, while AC power goes off, will send **AC Power Goes OFF** to the authorized number immediately, and while the external AC power goes on, will send **AC Power Goes ON** to the authorized number immediately.

7. iOS App and Android Apps Instructions

The user can operate the GSM Unit by Android Apps and iOS. Both of them are free charge. For Android Apps, please download from our official website, and download the iKeyPad from Apple Store. The interface of these tools please see below.



8. Technical specifications

Rated Voltage: 8~24V 2A DC

Standby Consumption: 30~35mA (Not charging battery)

Working Consumption: 400mA

Working temperature: -10 ~ +60

Storage temperature: -20 ~ +60

Relative humidity: 10-90%, No condensation

GSM frequency: 900/1800MHz(Default) or 850/1900Mhz (Optional)

SIM Card: Supporting 3V SIM Card

GSM Antenna: 50 Ω SMA Antenna interface

Communication protocol: GSM PHASE 2/2+ (include data service)

Digital Inputs: 2 (Dry Contact, NC or NO)

Digital outputs: 2 (Dry Contact, NO, 10A/240VAC)

Pulse Input: 1(range:00000~99999)



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Backup Rechargeable Battery: 3.7V@900mAH lithium batteries

External Size: 150mm*71mm*30.30mm

Installation Type: 35mm DIN Rail.

Net Weight: 0.60Kg

9. Warranty

- 1) This system is warranted to be free of defects in material and workmanship for one year.
- 2) This warranty does not extend to any defect, malfunction or failure caused by abuse or misuse by the Operating Instructions. In no event shall the manufacturer be liable for any alarm system altered by purchasers.

10. Affix Table

Before setup the GSM Unit please write down the installation plan firstly, it is very useful for saving your test and installation time. After installed successful, then tear off this Schedule for review in further.

Installation Schedule								
SIMCard Number in the GSM Unit: _____								
Installation Address: _____ _____								
Serial Number	User Name	Phone Number	Authorized Type					
			Alert Method			Access the GSM Unit		
			SMS&Call	SMS	Call	Arm/Disarm	Switch ON/OFF Relay XY	Inquiry
1								
2								
3								
4								
5								
6								

Notice: Please mark V if for enable and X for disable.

The End!

Any questions please help to contact us feel free.

[Http://www.GSM-M2M.com](http://www.GSM-M2M.com)