

GSM POWER ALARM SYSTEM

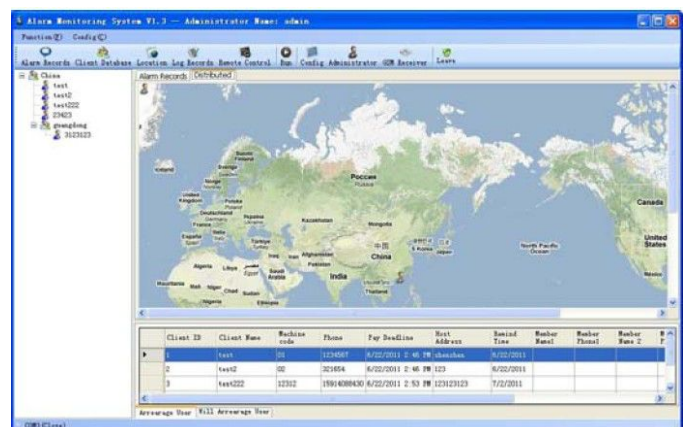


Design Scheme



GSM Alarm Receiver PH-008

Centre Monitoring Software PH-BC110



Summarize



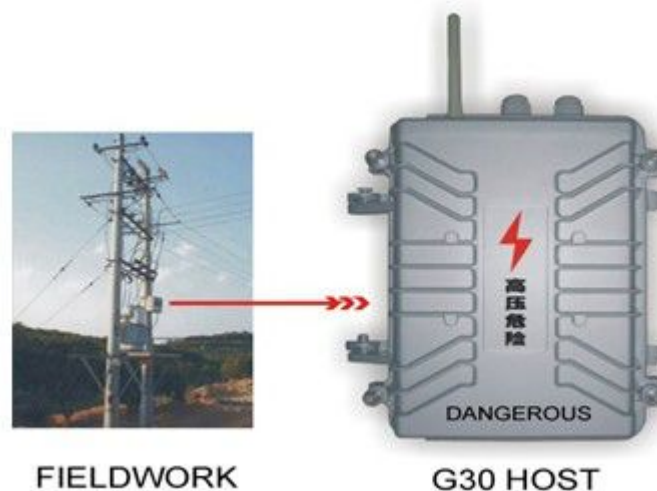
The stolen of the power facilities such as transformer, cable line and so on are serious both in home and abroad. The relative departments attach great importance to it and they also think that the most efficient way is civil air defense with technology protection. Our company develops the Power facility burglar alarm system for the actual situation. This system is mainly used in security of cable line and transformer. The features of it are: not limited by distance, not affected by quantity, not affected by weather and can have one alarm receiving center. The microcomputer installs the center software, which can show you the actual place of transformer and the failure line by the electronic map and record the alarming time. If connects with the printer, it can print the data for your future reference. The system has practical functions, good quality, and working stability, so it is widely used in electric power, oil, mining and other all outdoor security work of power facility. It's the most advanced alarm system in present domestic similar products.



I. Alarm system

1. Parts of the system

This system consists of one GSM receiver, one microcomputer (software) and alarms in the point you want to protect. Many sets of the alarms are installed in or beside the pole of the power line or transformer, when the power line or the transformer is stolen, the 3 phase was cut or power is failure, the monitoring alarm system will detect and alarm immediately by wireless SMS and voice call to the GSM receiver. After the receiver got the alarm signal, it will transmit the alarm data to the microcomputer (software), and then the microcomputer will analyze the data and then alarm by sound and shown on the screen to show the alarm date, time, alarm model, alarm address and other alarm information. It also can record all the alarm issues for inquiring. The person who is on duty will call the police immediately after got the alarm signal and deal the alarm issues.



2. Main Features

- ◆ GSM SMS alarm, transmit without distance limitation.
- ◆ With 4 routes of wired inputs and 4 wireless zones;
- ◆ Send SMS to 6 preset mobile phone numbers automatically while alarming.
- ◆ Auto-dial 2 preset phone numbers and monitor the alarm site while alarming.
- ◆ With auto report when turn on and remote detect function

- ◆ Check the three phase, can check and report any unexceptional situation;
- ◆ With back up 12V rechargeable battery, can switch to back up battery when external power is failure;
- ◆ Can change the installation address, you can see the specific alarm address while alarming.

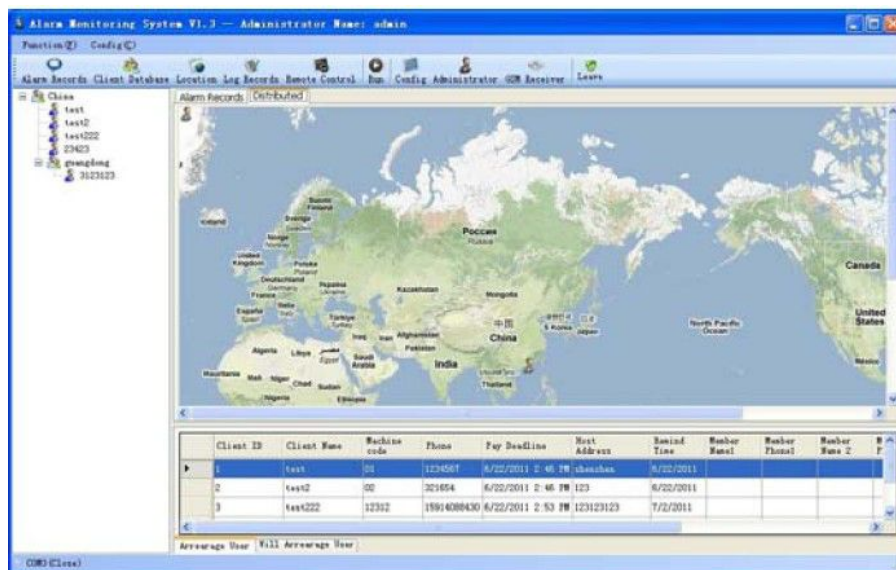
II. System Introduction

1. GSM receiver PH-008



- ◆ Support GSM 850/900/1800/1900MHZ;
- ◆ A standard RS232 serial port, baud rate 9600bps ;
- ◆ Support standard SMS format, with the function of receiving and sending message;
- ◆ Power supply: input AC220V, output DC7.2-9V;

2. Center software PH-BC110



The software is a kind of professional and integrated platform to receive alarm information, which adopts GSM SMS, voice and telephone to receive alarm information first in the domestic. It is practically used on the alarm center where the police are on duty. There are lots of functions of this alarm system include receiving alarm information, building database of users, storing voice phone of alarm, GSM SMS, printing alarm details in time...etc. However, this software needn't professional operation knowledge and professional operator. Its display interface is direct observation, living image and friendly. So it is easy to learn and use.

3. Patrol Hawk alarm host PH-G30

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- Monitoring center with all English interface, showing the operation status;
- Capacity: 100000 monitoring stations。
- With password protection
- Know the function through the icon in the interface
- With operation of the register, authorization, add, delete, change and check of the personal information
- Administrator can edit the electric map according to the real situation and requirement
- User can chose sound alarm and silence alarm, whether print the issues and so on.
- Can add and define new entering customer any time.
- System can distinguish various kinds of alarm issues.

<ul style="list-style-type: none"> ● From data, system can know the alarm type, start the siren, show the specific number and address of alarming immediately.
<ul style="list-style-type: none"> ● Can stats the alarm situation monthly, seasonally and yearly.
<p>Requirement for the microcomputer</p> <ul style="list-style-type: none"> ● CPU more than PIII ●RAM : more than 128MB ● 16 times the speed and above CD-ROM ● Hard driver space : more than 10G ● Window98/ NT/2000/XP operation system

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The GSM alarm system G30 adopts GSM network and Digital Signal Processing technology, and is widely used in security field. This system is mainly applied to the security of power transformer, electric transmitting line and street lamp line etc. With the advantages of good waterproof, practicability, good quality and stability credibility etc, the GSM power alarm can be used in various environment of outdoor. With SMS data transmission and voice platform of GSM network, it is really realizes wireless alarm control and remote managements and solves the limitation of wired data transmission in telephone and wired network.

Main features of G30

- ◆ Mainly for the security of transformer of 10KV power network, cable line and street line and so on;
- ◆ Can monitoring the loss voltage of alarming and phase-cut operation;
- ◆ With 8 wired zones (can connect with vibration or other sensors);
- ◆ Alarm with SMS and auto dial, and start listen in function;
- ◆ One alarm host can deal with the alarm signal of three 3 sets nearly transformer;
- ◆ Work with center software PH-BC110;
- ◆ Completely sealed aluminum outer shell with waterproof, anti-corrosion, fireproof, strike preventing;

Technical parameter

GSM frequency: 900/1800MHZ (standard), 850/900MHZ (optional)

Work voltage: AC 380V+10%

Response time: $\leq 10s$ (with normal GSM network)

Temperature: $-30\sim+55^{\circ}C$

Humidity: 20~85 %

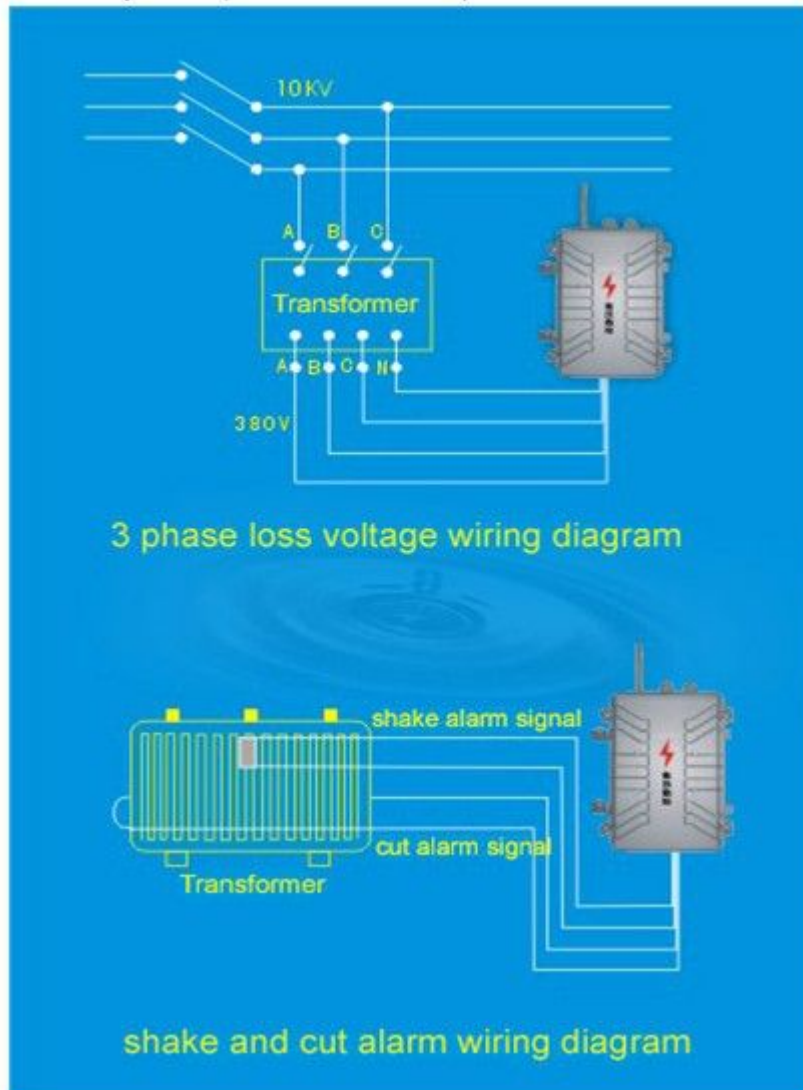
Alarm method: dual mode by SMS and calling

Outer case: completely sealed aluminum metal case

Size: 240mm(L) * 170mm(W) * 115mm(H)

4. Detector of power line and transformer monitoring station

1) Intelligent detection of three-phase electricity phase can accurately judge and reported A, B and C phase abnormalities, which is more reliable and more exact than traditional test method of voltage, and the misstatement rate is extremely low.



2) Anti-cut of transformer and other facilities

3) Shock detectors

III. Field work

1. Installation of the alarm for the transformer in KPLC, Kenya:





2. Installation of alarm for transformer and cable line in Dongguan, Guangdong, China



3. Installation G30 for transformer and cable lines Shenzhen, China



4. Installation of G30 for transformer and cable line in Foshan, China :



5. Installation site at South Africa



IV. Order configuration

Product name	model	quantity	Unit price (USD)	Amount (USD)	Note
G30 alarm host	G30				Built-in rechargeable battery, and shock sensor
Siren	PH-626				optional
Wireless keypad	PH-YKQP12				optional
GSM receiver	PH-008				
Center software	PH-BC110				