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**Remote Monitoring Your Outdoor Assets In Anywhere and Anytime!**



**GSM GPRS Power Facility Alarm  
GSM GPRS Outdoor Alarm Controller  
S250  
Data Sheet**

**Ver 1.10 Date Issued: 2012-08-20**

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## 1. Brief introduction

The GSM GPRS Power Facility Alarm (GSM GPRS Outdoor Alarm Controller)S250 is an high-technology and specialized wireless anti-theft controller special for electricity power transmission devices and outdoor security protection applications.

The GSM GPRS Power Facility Alarm (GSM GPRS Outdoor Alarm Controller)S250 in-built industry microprocessor inside, with waterproof and weatherproof enclosure, supports solar panel powered up. It provides 2 digital relay outputs (240VAC/10A), 8 digital inputs(Dry contact, Lightning protection, Electrostatic protection, Over current protection.), 3-Phase AC Power Opto-isolated inputs to detect the Electricity A , B, C 3 phase status. It allows you to monitor and control an alarm or remote stations or equipments or machines by SMS(Short Message Service) Or GPRS. It is very suitable for outdoor security protection and Transformer anti-theft requirements, Power Transmission Equipments Burglarproof applications as well as power cable anti-theft and so on. When any cable was cut or loss, or and detector activated, the panel will alert the owner immediately by SMS, or call, as well as to Web Based Monitoring Center. also, it will start the siren immediately. The system with intelligent designed, it can distinguish the normally power off and cut cable power off. This is very useful for power device transmission devices.

The GSM GPRS Power Facility Alarm (GSM GPRS Outdoor Alarm Controller)S250 can work with the Web-Based Alarm Monitoring center, in order to monitoring lots of units in the countryside by Wireless GPRS Network. The Web-Based monitoring center supports Google Map to display the alarm occurrence place directly. Moreover, the user can inquiry the historical record from website at anywhere and anytime. Moreover, the clients can develop its special monitoring center according to the communication protocol directly over wireless GPRS network.

The GSM GPRS Power Facility Alarm (GSM GPRS Outdoor Alarm Controller)S250 supports solar panel, so when the AC Power goes off, it still can keep working well! And when the battery voltage is lower than normal, it will alert the users.

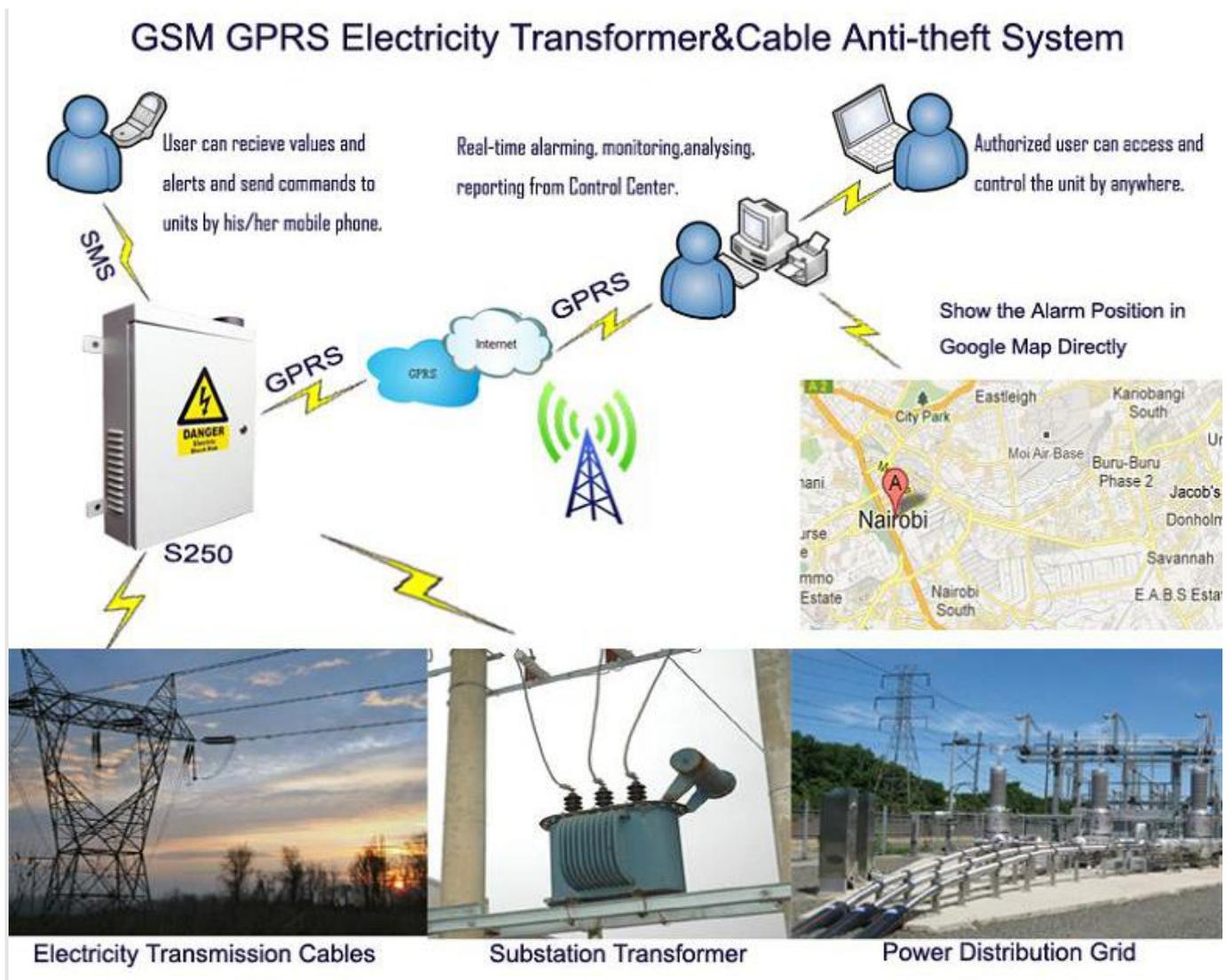
Meanwhile, the GSM GPRS Power Facility Alarm adopt Time-Stamped technology, it will inform the administrator by SMS who is operated it or what occurrence. This is very useful for operation management.

**The GSM GPRS Power Facility Alarm (GSM GPRS Outdoor Alarm Controller)S250 can be used as:**

- **A Wireless Switch with SMS Remote Control.** SMS texts for switching particular terminals on/off are configurable.
- **An automation system.** Each input can link to output actions, this is very useful when the temperature upto appointed value, need switch on the air-conditioning immediately, or when water overflow and need switch on the dryer, or when somebody broken into the field fence or cut cables need to start the loudly Siren or equipments.

- **A GSM GPRS Alarm unit.** The digital Inputs activations or any of the 3-Phase AC Power cut will alert by SMS or GPRS. Each input can have its own message texts and the message can be programmed by users.
- **A SMS reporter.** The digital Inputs activations or deactivations can be reported by SMS. Each input can have its own message texts and the message can be programmed by users.
- **A GSM GPRS Remote Terminals (GSM GPRS Outdoor Alarm Controller).** It can work with the supervising center, in the supervising center, the own can remote monitoring and control the remotely terminals by GSM GPRS Network. This is very useful to BTS environment monitoring, power transmission system monitoring and other applications.

**What Applications does the GSM GPRS Power Facility Alarm (GSM GPRS Outdoor Alarm Controller)S250 suitable for?**



1. Electricity transformer and Cable anti-theft application;
2. Electrical Power Unit(EPU) Monitoring and Anti-theft applications;
3. Power Plant, transmission Substation, power towers;

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4. Distribution Grid, transmission grid, power substation;
  5. The switch tower and the main transformer;
  6. Outdoor Security Alarm System applications;
  7. Supervision and monitoring alarm systems;
  8. Outdoor substations, e.g. Mobile tower, field substations and so on;
  9. Outdoor Pumping Stations;
  10. Transformer stations;
  11. Control room application, etc. .

## 2. Safety Directions



### Safe Startup

Do not use GSM GPRS Power Facility Alarm when using GSM equipment is prohibited or might bring disturbance or danger.



### Interference

All wireless equipment might interfere network signals of GSM GPRS Power Facility Alarm and influence its performance.



### Avoid Use at Gas Station

Do not use GSM GPRS Power Facility Alarm at a gas station. Power off GSM GPRS Power Facility Alarm when it 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 maintainer.

## 3. Standard Packing List



Control Panle



USB cable



CD(User Manual and PC Configurator)



Waterproof Connector



Lock Keys

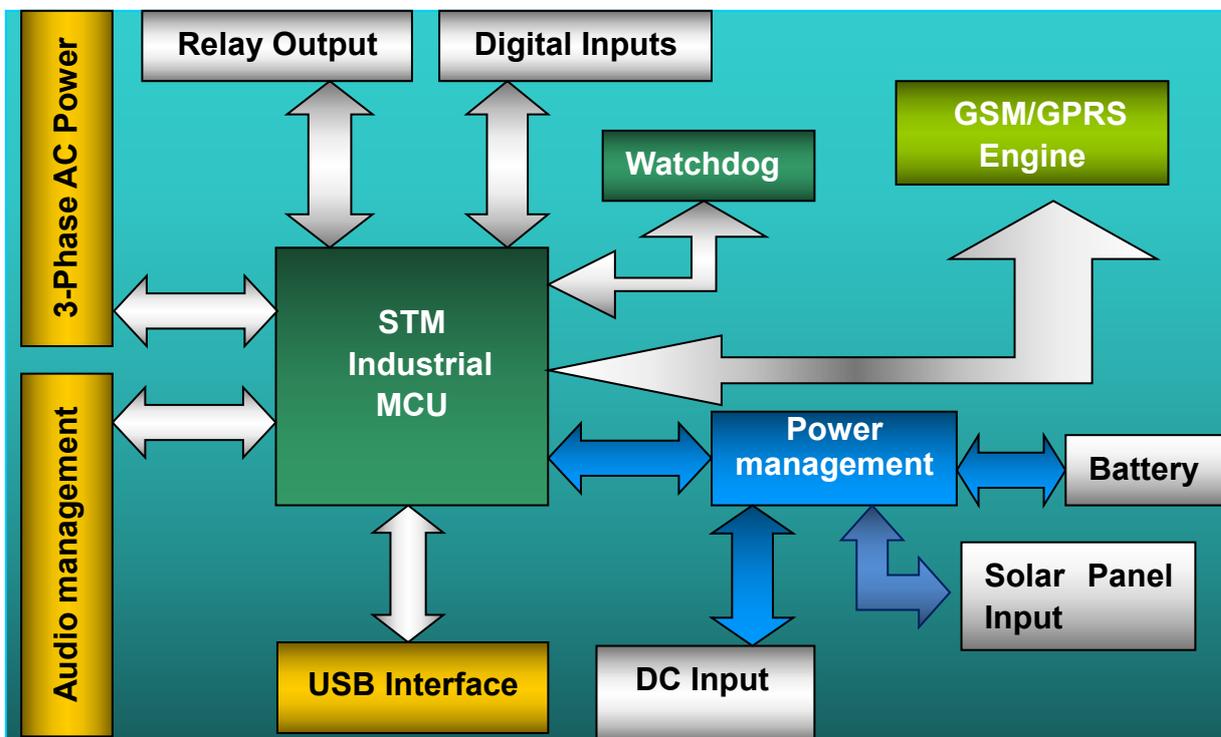


12V 18W Solar Panel(Optional)

### Optional Accessories :

12V18W Solar Panel, Wired Temperature Detector, Oil Level Detector, Shock Detector, Photoelectric Beam Detectors and Fixed wire anti-movement detections.

### 4. Features of GSM GPRS Power Facility Alarm:



- 1) Inbuilt Quad-band GSM GPRS Module, GSM/GPRS Data Transmission, no distance limitation;
- 2) Lighting protection design;
- 3) Weatherproof design, with temperature compensation function for high/low temperature, waterproof for outdoor applications;
- 4) Programmable by USB Port or SMS Commands;
- 5) Supports Arm or Disarm by SMS or Web Based Monitoring Center;
- 6) Power on by 220VAC from any phase of A/B/C;
- 7) Supports Solar Panel powered on as well as includes internal rechargeable battery that can last 24hours, when battery with low voltage will alert user by SMS;
- 8) Supports 8 digital inputs(NC/NO) for digital inputs, also supports EOL connection to prevent cut detector wires and detector disconnection;
- 9) Supports 2 output relays(240V/10A), the output relay is programmable to different alarm source;
- 10) Can send to 6 SMS alarm numbers, distinguish which phase and with input occurrence alarm;

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- 11) Supports two way voice communication;
  - 12) Supports external siren, the siren working time is programmable from 0-10minutes;
  - 13) Supports operation logs to distinguish who operated it at what time;
  - 14) Supports self-checking status and report to monitoring center and users from 0-240Hours;
  - 15) Supports time stamp for events;
  - 16) Supports GSM interface and GSM Jammer alarm function;
  - 17) Supports IP address and Dynamic Domain name;