User Manual

GSM POWER OUTAGE ALARM SYSTEM
(Single Phase)
Model: GSM-0308POA1P
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Applications:

This product is suitable for farms, security, refrigerator, electrical equipment, banking, telecommunications, factories, railways, machine room, uninterruptible power supplies, pharmaceuticals, machinery and important equipment, a 24-hours production line’s operation etc.
Instructions:
The device detects objects connected with the same circuit. Once the power cut off, the device will SMS / phone call to inform you. Maximum 5 group administrator can be set up to receive alarm alerts.

4 simple steps to use the device:
1. Insert the SIM card
2. Plug in the power cable into the power supply socket
3. Switch on the On/Off switch
4. After the device starts, make a call to the device (call the SIM card phone number)
   Note: When hear a "~di" sound, you can determine the equipment has been start successfully.
   When it reply as follows, it is ready to use. At this time, unplug the power cord (similar to power cut), the system will send SMS to alarm alert (also can be set to call the police, then send SMS)
Installation Diagram

Device Design
Technical Parameter

- Power Supply: Single Phase 220V-240V 50/60Hz
- GSM Frequency: GSM900/1800Mhz (Optional GSM850/900/1800/1900Mhz)
- Device Power: <2W
- Backup Battery: 7.4V/600mAH Lithium Polymer Battery
- Maximum Load For Control: NO: 10A / 277VAC, NC: 12A / 125VAC
- Remote Monitoring Distance: GSM network coverage area
- Physical Casing Dimension: 180mm x 140mm x 60mm
- Enclosure IP Rating: IP65
- With 5VDC Output
- Operating Temperature: -20°C to 65°C

Setup via SMS Command

1. **Administrator**

1.1 **Temporary Administrator Privilege:**

   *100*AAAAAA#

   Setting up a Temporary Administrator Privilege for Programming Mode:

   AAAAAA = 6 Digits Password
   Default Password = 123456

   By using this commando, you will obtain administrator privilege for 10 Minutes. That means you can do all programming within those 10 Minutes.
   If you add your tel. no. in the administrator list, you do not need this function anymore.
   If another uses same commando within the 10 Minutes, then you will lose your Administrator privilege.

   **All tel. no. on the Administrator list have full control over the unit at all time.**
1.2 Changing a Password:

*100*AAAAAA*BBBBBB#

Change the password.

AAAAAA = 6 Character Old Password

BBBBBB = 6 Character New Password.

At the same time, it will get the Administrator Privilege.

Example: Send *100*123456*obs123#, the system will change the admin to obs123

```
*100*123456*obs123#
```

New password: obs123

1.3 Add an Administrator Number

*101*A*BBBBBB#

Add administrators to the Administrator List

A = Administrator no- (1 – 5)

BBBBBB = Tel. no. of new administrator.

You can add a Minimum of 3 digits and a maximum of 20 digits.

Example: Send *101*5*13812512456#, System will set 13812512456 as Admin 5

Send *101*3*123456#, System will set 123456 as Admin 3

```
*101*5*13812512456#
```

Administrators:
1: 17817777070
2: 3: 4: 5: 13812512456

```
*101*3*123456#
```

Administrators:
1: 17817777070
2: 3: 123456
4: 5: 13812512456
1.4 Enquiry to the Administrator Numbers in the list

*102#

Check administrator list

It will reply with a full list of all administrators on the list.

1.5 Delete Administrator Number in the list:

*103*A#

Deleting administrator tel. no. on the list

A = administrator no. (1 – 5)

Example: Send *103*5#, the system will delete the Admin 5

1.6 Enquiry Signal Strength:

*104#

Check signal strength on the GSM connection

Enquiry for Signal Strength

CSQ = 0 – 10 (Weak Signal)
CSQ = 11 - 20 (Average Signal)
CSQ = 21 – 30 (Good Signal)
CSQ = Above 30 (Excellent Signal)
1.7 Time Schedule to send SMS Reminder to the Administrator

*109*XXX#

SMS check message to say the unit is still up and running.

XXX = Days (Value = 000 - 255, must be in 3 digits, every week = 007)

Default as 000 (Not Sending SMS reminder)

Default Text reads as “Hi! I’m OK” (Can edit the text using *111* Command)

Example: (send) *109*002# the system will start to calculate from the moment it receives the SMS. After 2 days, it will send out a SMS reminder.

Note: If the system had been restarted, it will clear the time to ZERO and recalculate again for 2 days from the moment the system restarted, then send out the SMS reminder after 2 days.

2. Relay Programming

2.1 Call Alert for Power Outage Alarm:

*302*2*B#

B = 0 or 1 (0 = OFF, 1 = ON)

Example: Send *302*2*1# when there is a power failure, the System will make a phone call to Administrators (1-5) then send a corresponding SMS to all Administrators. If the call is not answered the system will continue to call the 5 Administrator Number simultaneously. When the administrator answers the call, the system will send an alert message.

Example: Send *302*2*0#, when there is a power failure, the System will not make a phone call to Administrator. It only will send Alarm Alert SMS
3. **Power Outage Alert Programming**

3.1 **Power Outage Delay Time:**

`*400*xxxx#`

`xxxx = delay time in seconds (0001 – 6553 seconds)`

Default = 0001

When a Power Outage happens, the system will monitor the frequency of 10 times per second constantly. When `xxxx` set as 0001, when the power connect back in 1 second, the power outage alarm will invalid and it will not alarm alert. When `xxxx` set as 0999, when power connect back in 999 seconds, the power outage alarm will invalid and it will not alarm alert.

Example: Send `*400*0025#`, after successfully set up, then it will not send an alarm before there has been a Power Outage for 25 seconds.

For more additional command, please refer to “Additional Command List For GSM-0308 Series”