GSM WIRELESS DIALER

INTRODUCTION:

Wireless GSM dial-up device using sophisticated wireless technology, upgrade a single telephone line alarm system to a telephone-line/GSM dual-network alarm system, can upgrade an ordinary telephone line burglar alarm host to a telephone-line / GSM dual-network burglar alarm host. Alarm information transmission can be more reliable and stable. It also can be widely used in the field of wireless base stations in remote areas without telephone line, just need a simple GSM wireless network.

MAIN FEATURES:

1. It can match with any brand of alarm host, telephones, PBX and other user terminal equipment, and upgrade a single PSTN network to PSTN / GSM dual-network.

2. It can monitor PSTN telephone line status in real-time, when the phone line fails or is cut, the transponder auto switch to GSM mode immediately, replace the telephone line, responsible for communications, send alarm messages.

3. It also can monitor GSM network status in real-time, when the GSM network becomes abnormal, the transponder auto switch to PSTN line mode immediately to replace GSM mode, responsible for communications, send alarm messages.

4. It's easy to installation and set up without programming. SIM card could be installed easily without dismantling cover.

5. It's small in size, with beautiful appearance. And the working status indicators are easy to understand.

USER GUIDE:

[1] APPEARANCE:

[2] INTERFACE DESCRIPTION:

SIM Card Slot: use drawer type SIM card slot. Users simply use a small screwdriver to squeeze the yellow button next to the card slot, the SIM card will pop up. SIM card can be installed if you insert the SIM card align the gaps on card slot.

GSM antenna: use to transmit and receive GSM signal, 900/1800MHZ

T**elephone line interface (Incoming):** connect to local PSTN (Optional).

Telephone Interface (Output): connect to the telephone-line input of alarm host or telephone.

Power Supply: DC 9-15V / 4W

[3] LIGHT DESCRIPTION:

Condition / Name	▼ Off	ON	Flashing
Telephone-line Input (Phone line status)	Telephone-line fault	Telephone-line normal	Under function-setting status

Condition / Name	Off	ON	Flashing
GSM/ Telephone-line (Line currently in use)	Telephone line	GSM	GSM，The call has been picked up

Condition / Name	Off	Flashing
GSM status (GSM network state)	GSM Network Abnormal	The longer light is on, the stronger signal is

[4] JUMPER DESCRIPTION (Note 1):

Jumper	Short	Open
SET1	Prefer GSM network	Prefer telephone-line network
SET2	Don't switch line automatically when detect faults	Switch line automatically when detect faults (Note 2)

Note 1: Open the case, there are two jumpers SET1, SET2, they are all opened on factory settings.

Note 2: When the GSM fault is detected automatically when 30 seconds to cable; cable fault is detected automatically when 10 seconds to switch GSM; once to another line,

At least 60 seconds to back; GSM during a call does not switch.

[5] FEATURE SET:

Into the feature set: boot outside lines for 10 seconds, the first time you pick up the phone, press the button "#" to enter setting mode, and the outside line will flicker fast, when you dialing, the Voice dialing does not stop, the phone will Automatically switch to GSM status.

Feature project:

00 # * AB * #: soft-set switch, when the two jumpers on the board Disconnect, the Jumper functions are set by the AB decision.

AB must be four numbers of "11/12/21/22" to be effective, otherwise, the equivalent of two jumpers are disconnected

A --- jumper 1:   1 - Short Circuit   2 - Disconnect

B --- Jumper 2:   1 - Short Circuit   2 - Disconnect

Note: when boot, the GSM status lights be on, the input light of outside line \GSM / outside line light will show the set of two switch state.

01 #*   Outside line prefix number * #: removed before the number

02 #*   IP prefix * #: auto add before dial the number

03 #*   SMS reported number * #

04 #*   4 position of local number * #

05 #*   4 position reporting interval timer + ABC * #:

    4 interval time of HH: MM (hours: minutes), when HH = 99/00 or enter space it will not reported

    A- whether or not report when wire telephone fault: report when it is 1, others will not report

    B- whether or not report when wire telephone recovery: report when it is 1, others will not report

    C- whether or not report when boot: report when it is 1, others will not report

88 # *: exit when end the programming, also auto quit when 30 seconds of invalid command

99 ##:** delete all, restore factory state

TECHNICAL PARAMETERS:

|	
Working Voltage	DC 9-15V
Standby current	12V/50mA
Working Current (wireless transmitter)	12V/220mA
Maximum transmit power of wireless	2W/900MHZ，1W/1.8GHZ
Radio frequency	GSM900/1800MHZ
Working conditions	Temperature -20 ℃ ~ 55 ℃, humidity ≤ 95%
Dimensions	99mm×120mm×30mm
Weight	200g

GSM GPRS Wireless dialer

1. Introduction

GSM wireless dialer using mature GSM wireless communication technology, upgrading single line alarm network for telephone/GSM, dual network alarm, upgrading ordinary telephone network system into due network /GSM, dual network alarm host more stable and reliable, meanwhile widely used in radio stations as well as remote field areas, only GSM wireless network alarm.

2. Main function and characteristics

1) **Good stability:** Use industrial grade model, keep long and stable performance, and provide perfection self-checking report

2) **Good compatibility:** can match any brand of the mainframe, telephone, PABX users terminals equipment etc, upgrade single PSTN network for PSTN/GSM dual net.

3) **Dual net dual report:** GSM&PSTN/GPRS&PSTN wired network and wireless network alarm at the same time, send alarm report to two alarm receiving center at the same time.

4) **Dual net, one network alarm, the other network standby.** Real-time monitoring GSM network state, when the GSM/GPRS network unusual, repeaters automatically switch to PSTN immediately. Responsible for communication, replacing the GSM sent alarm information. On the contrary, when PSTN network unusual, repeater automatically switch to GSM/GPRS wireless network.

5) **Easy installation:** small size, beautiful shape, working set simple and straightforward.

3. Guidelines

(1) The structure:
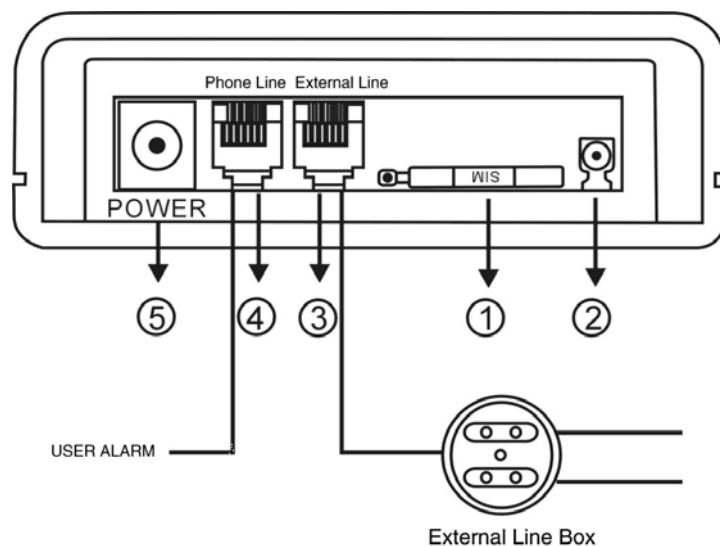
①.**SIM Card Slot:** use drawer type SIM card slot. Users simply use a small screwdriver to squeeze the yellow button next to the card slot, the SIM card will pop up. SIM card can be installed if you insert the SIM card align the gaps on card slot.

② **GSM antenna:** Sending and receiving the GSM wireless signals 900/1800MHz

③ **Telephone interface (incoming):** Connect to local PSTN (Optional).

④ **Telephone interface (output):** Connect to the telephone-line input of alarm host or telephone.

⑤ **Interface:** DC power 9-15V/4W

(2) **Indicator**: (from left to right)

Name \ Condition	OFF	ON	Flashing
NETWORK (GSM/GPRS Signal state)	GSM abnormal	Current state: GSM/GPRS	flash more longer the GSM/GPRS signal more stronger
GSM/GPRS (currently state)	Current state: Telephone line (if Telephone indicator is on)	Current state: GSM/GPRS	Starting up
TELEPHONE (telephone line state）	Telephone Line abnormal	Telephone line normal	Program status

(3) **Jump line (notice):**

Jump line	Shot by	Impending
SET1	Priority GSM network	Phone line prefer
SET2	Detect breakdown automatically but not change	Detect breakdown automatically switch route(notice)

Notice 1: opening the cabinet, has SET1 SET2, two jump line, SET1 SET2 / are all appending under factory setting

Note 2: After 30 seconds, if detected GSM network is unusual it will automatically switch to telephone line; if telephone line is unusual about 10 seconds, it will automatically switch to GSM network. Once turn to another line, at least 60 seconds to turn back. No switch when GSM network is calling.

(4) **Program (by telephone)**

Enter program: not line, electric boot on the first telephone in 10 seconds, the first button should press "#" into set state. Meanwhile out line input keyboard with flashing rapidly, while dialing dial tone does not stop, phone automatically switch to GSM state.

Functions item:

00#*ABCDE*#: soft set switch, when two jumpers all disconnect, jump function setting decided by AB.

AB must be"11/12/21/22 four figures, otherwise equivalent to two jump line is disconnected

   A--- Jump line 1:   1 --circuit   2 --disconnect

   B--- Jump line 2:   1 --disconnect   2 –circuit

     00#*11*#------------choose GSM network prior, will NOT auto switch network when check fault

     00#*12*#------------- choose GSM network prior, will auto switch network when check fault

     00#*21*#------------- choose PSTN network prior, will NOT auto switch network when check fault

     00#*22*#------------- choose PSTN network prior, will auto switch network when check fault

   C—CID send alarm information by SMS (only available when<06>GPRS set up is blank

    2-----only CID protocol send alarm information by PSTN----- suit for CID alarm receiving center

    3------CID protocol send alarm information by PSTN prior than send alarm information by SMS again. ----- Suit for CID alarm receiving center

    4------CID protocol send alarm information by PSTN prior, if PSTN fault, send alarm information by SMS again

    0-----GSM can be use as a telephone.

   D----DTMF (Dual Tone Multi Frequency)   0-9 respond to50-140ms,blank is 70m

E-----open SMS function

Code 1-----English SMS   Code 2----Chinese SMS

For example: you want set up English SMS and choose receive SMS only, you can do like this: 00#*22131*#

Notice: CID protocol user send alarm information by PSTN------program 00#*222*#

Notice: the GSM lamp is long bright when starting up, exterior line lamp; GSM/exterior line lamp shows two switch state.

01 #*exterior line prefix *#: ------ internal line call exterior line, need to add prefix number, like 9.When send alarm information by GSM, this dialer will auto ignore it.

02 #* IP prefix *# ---------automatically add before dialing

03 #*SMS report to SMS receiving center telephone Numbers

For example: 03*#13570905775*#

  (You mobile phone is 13570905775),

04 #*4 is mainframe Numbers+ 4 password+2 group number-------set up user mainframe number and password and group number.

05 #*4 position regularly report time + ABC * #-----------SMS regularly report set up

4 time intervals for HH: MM: (hour: minute), when the HH = 99/00 or empty will not report

A – PSTN faults whether report, 1 report, others not report

B - PSTN fault been recovery whether report, 1 report, others not report

C – Starting up whether report, 1 report, others not report

06#*IP of alarm receiving center & port *#---------set up IP of alarm receiving center & port, only support UDP

For example: 06#*202*105*88*6#1159*#------means IP of alarm receiving center & port is "202.105.88.6:1159" (* between IP number means interval, # between IP number and port number means interval)

07#* telephone number of alarm receiving center 1*#------set up first group telephone number of alarm receiving center.

08#* telephone number of alarm receiving center 2*#------set up second group telephone number of alarm receiving center.

09#* IP of second group alarm receiving center & port *#--------- set up IP of alarm receiving center & port, only support UDP

For example: 09#*202*105*88*5#1159*#------means IP of alarm receiving center & port is "202.105.88.5:1159" (* between IP number means interval,# between IP number and port number means interval)

88 # *: quit, invalid command over programming exit in 30 seconds automatic

99 # * * #: delete all program, turn back to factory setting

4. Program by SMS

(00-09 can be program by send SMS)

(1) Program

| (0136+1234-71)<00>22331 |

0316 means code of this alarm panel, 1234 is password, 71 is program control fix code, 00 is program address, 22331 is the content of program.

(2) Check

| (0136+1234-00)<03> |

0136 is code of alarm panel, 1234 is password, 00 is check fix code, 03 is the program address which you want to check.

5. Technical parameters

Working voltage	DC 9-15V
Standby current	12V/50mA
The working current flow (wireless transmitting)	12V/220mA
Maximum transmit power of wireless	2W/900MHz，1W/1.8GHZ
Radio frequency	GSM900/1800MHz
Working conditions	Temperature:-20℃~55℃ Humidity: ≤95%
Dimension（L*W*H）	99mm×120mm×30mm
Weight	200g