User Manual

GSM MULTI FUNCTION CONTROLLER AND MONITORING SYSTEM

Model: GSM-1308M

Table of Contents

Applications:

This product is suitable for farms, refrigerator, laboratory, humidity box, green house for vegetables & fruits, aquarium etc. Can use SMS to remotely Enquiry for Temperature Value, Setting for High / Low Temperature Alarm Set Point, Temperature Calibration, Text Content for Alarm Alert / Call Alarm Alert. 2 Channels Temperature Alarm Alert can split to: 1 Channel use for Temperature Control, 1 Channel use for Temperature Alarm Alert.

Instructions:

After connect to the unit, put the temperature probe at the object you need to monitor. Once the temperature is abnormal, the device will SMS / phone call to inform you. Maximum 5 group administrator can be set up to receive alarm alerts.

6 simple steps to use the device:

1. Insert the SIM card
2. Connect the Temperature probe
3. Plug in the power cable into the power supply socket
4. Switch on the On/Off switch
5. After the device starts, make a call to the device (call the SIM card phone number)
6. Use SMS to set the High / Low Temperature Value.

   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.
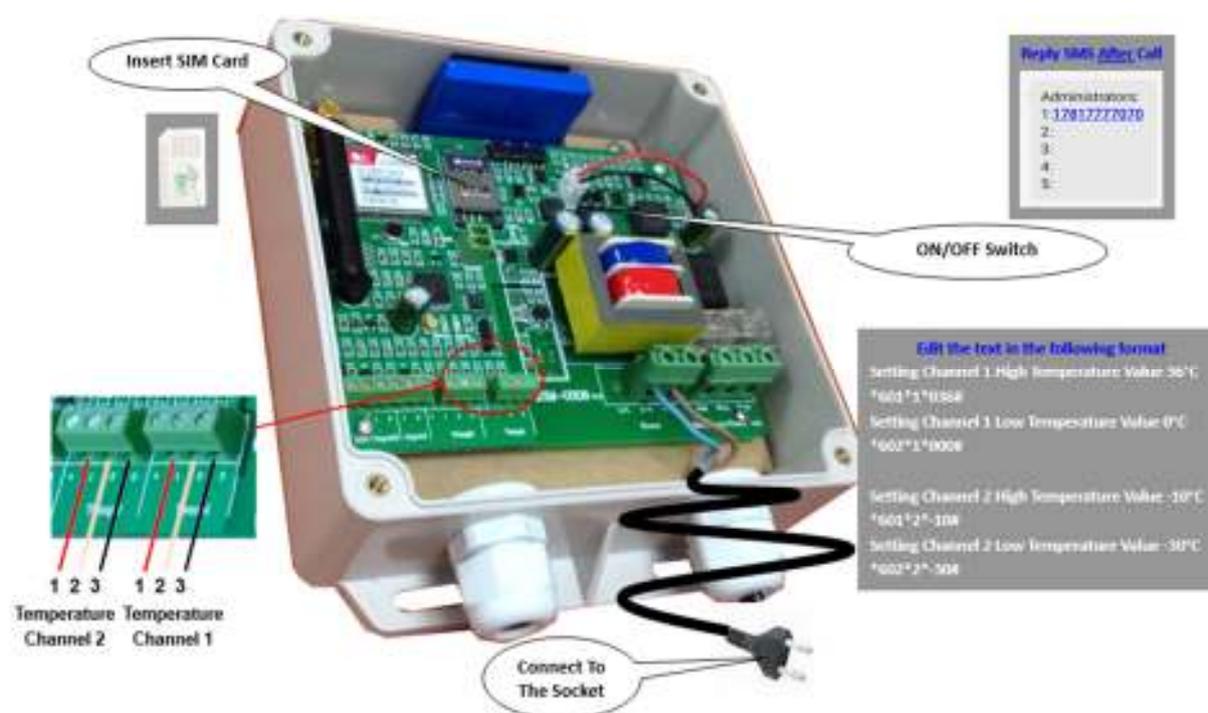
Installation Diagram
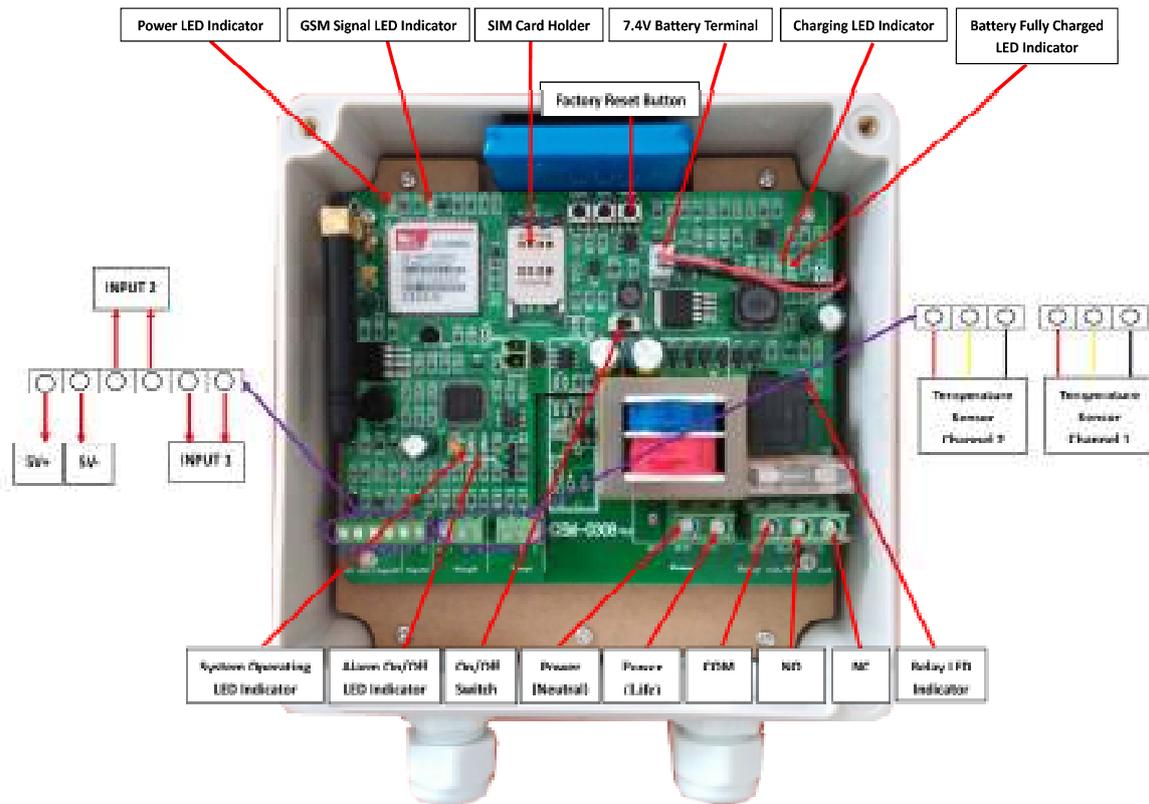
Device Design

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: 150mm x 150mm x 60mm

• Enclosure IP Rating: IP65

• Temperature Monitoring Area: -49°C to 129°C

• Temperature Error: ±1°C

• Temperature Channel: 2 Channels

• Temperature Sensor Type: S-58LM20A

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

1.3   Add an Administrator Number

*101*A*BBBBBB#

Add administrators to the Administrator List

A = Administrator no- (1 – 5)

BBBBBBBB = 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
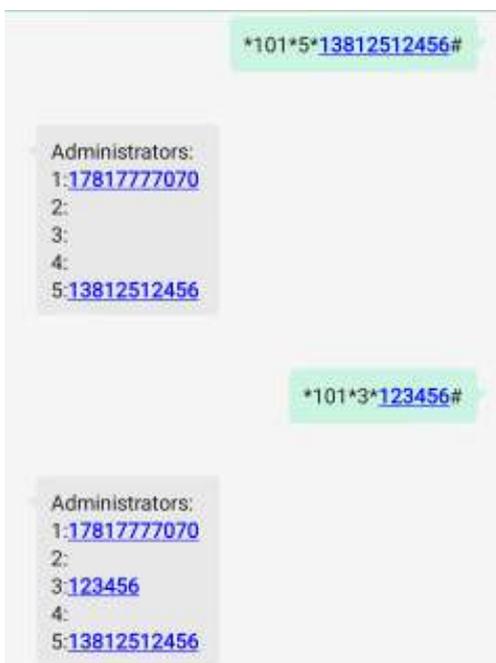
1.4 Enquiry to the Administrator Numbers in the list

*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)
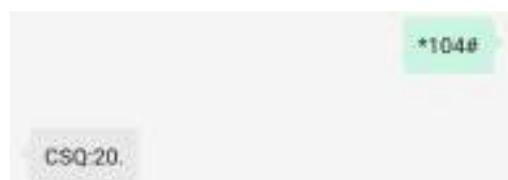
1.7   Enquiry Time for the System:

***105#**

Check time already stored in the unit.

1.8   Set Time for the System:

***106#**

By sending *106# the unit will be updated with the same time as in the SMS text.

1.9   Switch On/Off for SMS Text Message:

***107*X#**

Set To Switch On/Off for SMS Text Message for System

X = 1 = ON, X = 0 = OFF

Default is set as ON

If this Command is set to OFF, all SMS will not be sent out.

Example: (Send) *107*1#   this will Switch ON the SMS Text Message for the System.

Example: (Send) *107*0#   this will Switch OFF the SMS Text Message for the System.

1.10   Switch On/Off for Call:

***108*X#**

X = 1 = ON, X = 0 = OFF

Default is set as ON

If this Command is set to OFF, the unit will not be able to call out, as set in Point 2.10

Example: (Send) *108*1#   to Switch ON Call by System.

Example: (Send) *108*0#   to Switch OFF Call by System.

1.11   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.

1.12 SMS Text Message / Call when system Start:

*110*X#

*110*X# = commando

X = 1 ON, X= 0 OFF

Default set as ON

Notes: With this Command, every time when the system enters startup, it will sent out the start and relay status message report (Edit the text using *111* Command)

Example: (Send)   *110*1#   when the system starts, it will send a message report.

Example: (Send)   *110*0#   when the system starts, it will not send a message report.

1.13 Input Message for the System Start / Time Schedule SMS Reminder:

*111*AAAAAAAA#

AAAAAAAAA = the text that will be send when unit startup, and/if was send a remind message, saying unit is still up and running. (Max. 100 characters)

Example: (Send)   *111*I'm alive#once the system starts, "I'm alive" message will be sent to the Administrator. When using the Time Schedule Function, it will send "Hi! I'm alive" to the Administrator.

Notes: the Message without "Hi" Will be the message for System Start. Message with "Hi" Will be the message for Time Schedule SMS Reminder under *109*

1.14 Input Message for Command Control:

*112*XX*"AAA""BBB"

Change commandos to user specified commands.

So *112* = commando

XX is command no, there is 32 available 01-32

"AAAAA" is existing commando

"BBBBB" is new commando.

For an example: change Check signal strength. (Send) *104# to just signal!

Then you have to send the following message. (Send) *112*01*"*104#""signal"

01 = commando no. 1

"*104#" = existing commando for check signal strength.

"signal" = new commando for check signal strength.

To delete this simple wording replacement command, you can(send) *112*01*"*104#""" or *112*01*"""or*112*01*"""signal"the group 01 will now become blank.

1.15   Enquiry Input Message for command Control:

*113*XX#

Check the commandos there have been changed.

Enquiry Input Message for Controller

XX = Group (Value 01 – 32, must be in 2 digits)

Example: 03 is group 03.

1.16   Restart System

*114#

This is for restarting the system,

Remember: "Hi I´m OK"   this system message will be RESET and start counting days again beginning with 1.

2.   RELAY programming

2.1   Relay 1 control (Main relay)

*200*X#

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

Example: (Send)   *200*1#   the relay will be set to ON, and a report message of ON will be sent

Example: (Send)   *200*0#   the relay will be set to Off and a report message of OFF will be sent.

Notes: Relay working mode for 01, 02, 03, 06, 07, 08 which work together with Command *205*

2.2   Enquiry Relay Status (Main relay, Sub relay)

*201#

Get an SMS with the status of Main Relay and Sub Relay

2.3   Received SMS Report when activated. Not receive SMS report when Control Relay is off.

*202*X#

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

Default is 1

1 = receive SMS when call unit for activate relay 1

0 = not receive SMS when call unit for activate relay 1

2.4   Time Delay for Main relay:

*203*XXXX#

XXXX = time in seconds (0001 – 6553 seconds, always 4 digits)

Default is 0001 (1 second)

Notes: Relay working mode for 04, 05, 09, 10 work together with Command *205*

Notes: When the relay as not yet returned back to actual status, there is another trigger. The time delay will be: previous actual delay time + current delay time

Example: When working on 04 or 05 status, the delay is for 25 seconds. The system will calculate up to 24 seconds, it then receives another call, total delay time will be (24 + 25 = 49 seconds), and the relay will then go back to its actual status.

2.5   Relay Working Method

*205*XX#

XX = Working Condition (Value 01 - 12)

Default is 03

Explanation for Working Condition

01 = After System Start, Main Relay Condition as ON Status. When receive Call, System will terminate the Call, and Relay will trigger

02 = After System Start, Main Relay Condition as OFF Status. When receive Call, System will terminate the Call, and Main Relay will trigger

03 = After System Start, Main Relay Condition as LAST Action before the system OFF. When receive Call, System will terminate the Call, and Main Relay will trigger

04 = After System Start, Main Relay Condition as OFF Status. When receive Call, System will terminate the Call, and Main Relay will ON, After N seconds (N will depend on *203* command), then will OFF

05 = After System Start, Main Relay Condition as ON Status. When receive Call, System will terminate the Call, and Main Relay will OFF, After N seconds (N will depend on *203* command), then will ON

06 = After System Start, Main Relay Condition as ON Status. When receive Call, System will answer the Call, Press 0 key, the Main Relay will trigger

07 = After System Start, Main Relay Condition as OFF Status. When receive Call, System will answer the Call, Press 0 key, the Main Relay will trigger

08 = After System Start, Main Relay Condition as LAST Action before the system OFF. When receive Call, System will answer the Call, Press 0 key, the Main Relay will trigger

09 = After System Start, Main Relay Condition as OFF Status. When receive Call, System will answer the Call, Press 0 key, the Main Relay will ON, After N seconds (N will depend on *203* command), then will OFF

10 = After System Start, Main Relay Condition as ON Status. When receive Call, System will answer the Call, Press 0 key, the Main Relay will OFF, After N seconds (N will depend on *203* command), then will ON

11 = After System Start, Main Relay Condition as OFF Status. Relay will be Control by the Sensor (Depend on the Setting of Command of *304*). Cannot Manually Control the Relay

12 = After System Start, Main Relay Condition as ON Status. Relay will be Control by the Sensor (Depend on the Setting of Command of *304*). Cannot Manually Control the Relay"

3. System Alarm Alert Programming

3.1   Control Master Alarm Alert for System:

*300*X#

Set Control Master Alarm Alert for System ON/OFF

X = 1 is ON, X = 0 is OFF

Default as ON

Notes: This command controls the whole systems alarm alert.

If you put *107*0# and *300*1# then you will only receive calls of alarm.

Example: (send)   *300*1#   Alarm Alert will be ON

Example: (send)   *300*0#   Alarm Alert will be OFF

3.2   Enquiry for Master Alarm Alert Status:

*301#

Enquiry for Master Alarm Alert Status, as programmed under*300*

3.3   Call Alert for Trigger Type Alarm:

*302*A*B#

B = 0 or 1 (0 = OFF, 1 = ON) default as when alarm, will not message before phone call alert

A = Trigger Types as per below;

(1): System Restart

(2): Power Outage

(3): Power Recover

(4): High Temperature **(Note: Only applicable for unit with Temperature Alarm Alert Function)**

(5): Temperature Recover **(Note: Only applicable for unit with Temperature Alarm Alert Function)**

(6): Low Temperature **(Note: Only applicable for unit with Temperature Alarm Alert Function)**

(7): Input triggered

(8): Input Recover

(9): Wireless **(Note: Only applicable for unit with Wireless Alarm Alert Function)**

Example: (Send) *302*2*1# when there is a power failure, the System will make a phone call to Administrator 1 and 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. (If *107*as 1)

Example: (Send) *302*2*0# when there is a power failure, the system only send an alert message.

Note: you can choose as many of them you want which means you can simple choose to on/off the call function of the 9 Types of Alarm Alert

Example get a Call when Power Outage, and by alarm on input, and then you shall be sent 2 messages.

*302*2*1#

*302*7*1#

The system will now call when power outage and alarm when input trigger.

3.4   Setting when various alarm alert will have 5VDC output for external use

*303*A*B#

A = Alarm Type (1 = Power Outage, 2 = High Temperature, 3 = Low Temperature, 4=Line Cut, 5 = Wireless)

B = 1 or 0 (1 = On, 0 = Off)

Default when alarm alert, will not have 5VDC Output

After successfully set up, the system will have reply.

Note: 2 = High Temperature, 3 = Low Temperature **(Only applicable for unit with Temperature Alarm Alert Function)**, 5 = Wireless **(Note: Only applicable for unit with Wireless Alarm Alert Function)**

Example: (Send) *302*1*1#, when power outage alarm alert, it will activate the 5VDC Output

Note: you can choose as many of them you want, which means you can activate/deactivate 5VDC output function for the 2 alarm alert

Note: 5VDC Output system will not off automatically. If need to off the 5VDC output, can off the alarm alert or restart the system. When the relay working under mode 06-10 above, when connect the call, press "*", the 5VDC output will inverted status.

3.5   **Trigger Type Alarm Link with Relay:**

*304*0*B*C#

B = Control Type (B = 1 as Temperature Control, B = 2 as Line Cut, B = 3 as Wireless)

C = Group

After successfully set up, the system will have reply.

Note: 1 = Temperature **(Note: Only applicable for unit with Temperature Alarm Alert Function),** 3 = Wireless **(Note: Only applicable for unit with Wireless Alarm Alert Function).** The command as automated control setting command.

Example: Cold storage system, when the temperature for the cold storage higher than certain point value, it will automatically activate the Refrigeration Equipment, when the temperature for the cold storage lower than certain point value, it will automatically deactivate the Refrigeration Equipment

Example: High temperature furnace system, when the temperature for the furnace system lower than certain point value, it will automatically activate the Heating Equipment, when the temperature for the furnace system higher than certain point value, it will automatically deactivate the Heating Equipment

Example: Video Control System, when the door is opened, the system will automatic start video recording, when the door closed, the system will stop the video recording.

B Control Types as per below

1 = Temperature Terminal Linkage Control

2 = Line Cut Terminal Linkage Control

3 = Wireless Terminal Linkage Control

C as Group: Temperature, Line Cut, Wireless. Each type of Sensor will have different group. It will depend on you would like to use which group to control.

Example: Temperature Terminal No. 1, here will be as 1. Line Cut Control Terminal No. 2, here will be as 2

Example: (Send)   *304*0*2*1*#, which means the main relay control by the temperature sensor 1

The High Temperature relay pull or Low Temperature relay pull will depend on the command *205*XX#.

Value for *205*11# and *205*12# is the opposite command

Example: (Send) *304*0*2*1*#   which means the main relay is controlled by Input 1

Main relay activate or deactivate will depend on the command *205*XX#.

Value for *205*11# and *205*12# is the opposite command.

4. Power Outage Alert Programming

4.1 Power Outage Delay Time:

*400*XXXX#

400 = command

XXXX = delay time in seconds (Value 0001 – 6553)

Default = 0001

When a Power Outage happens, the system will look at the delay time and send an alarm according to that.

Example: (Send) *400*0025# then it will not send an alarm before there has been a Power Outage for 25 seconds.

4.2 Input Message for the Power Outage Alert:

*401*AAAAAAAAAAAA#

AAAAAAAAAAAAAA = text for power outage alarm (max 100 characters)

The alarm text Administrators will receive when there is a Power Outage alarm

Example: (Send) *401*Power cut# when power outage, "Power cut" message will be sent to the administrators.

4.3 Reset to Default Message for the Power Outage Alert:

401#

The commandos to Reset Power Outage alarm will text back to Default.

Default text is "AC power down"

4.4 Input Message for the Recovery from Power Outage:

*402*AAAAAAAAAAAA#

AAAAAAAAAAAAAA = text for power recover

Example: (Send) *402*Power recover# when power supply recover happens, "Power recover" message will be sent to the administrators.

4.5 Reset to Default Message for the Recovery from Power Outage:

402#

Reset Power recovery alarm will be text to Default

Default text (AC power up)

5.   Wireless Alarm Alert Programming

5.1   Check the Wireless Alarm Sensor Address

*500#

After successful, the system will have reply.

Every Wireless Alarm Sensor will have an individual unique address, this value is your alarm system address.

5.2   Delete Wireless Alarm Sensor Address

*501*X#

X = No. of group for Wireless Alarm Sensor

After successful, the system will have reply.

When the Wireless Alarm Sensor spoilt and would like to change a new one, this is the command to delete the old alarm sensor and pair a new alarm sensor.

For pairing with a new wireless alarm sensor. Long press 'Alarm' button, trigger the alarm system and it will successfully paired

Example: *501*4#, it will delete the group No. 4 wireless alarm sensor

5.3   Check wireless remote control address

*502#

After successful, the system will have reply.

Every Wireless Remote Control will have an individual unique address, this value is your remote control address.

5.4   Delete Wireless Remote Control Address

*503*X#

X as No. of channel for Wireless Remote Control

After successful, the system will have reply.

When the Wireless Remote Control is lost and would like to change a new one, this is the command to delete the old remote control and pair a new remote control

For pairing with a new wireless remote control. Long press 'Control' button, trigger the remote control by press any button at the remote control and it will successfully paired

Example: *503*2#, it will delete the group No. 2 wireless remote control.

5.5   Wireless Alarm Alert Text

*504*A*BBBBBBBBB#

A = No. of channel for Wireless Alarm Sensor

BBBBBBBBBB = the text there will be sent when a wireless alarm alert, max 100 characters

After successful, the system will have reply.

Example: (Send) *504*9*help me#, when channel 9 trigger an alarm alert, you will received a message as "**help me**"

To return to the default alarm alert message, (send) *504*9*#, the channel 9 will back to default alarm alert message

6.   Temperature Alert Programming

6.1   Enquiry for Current Temperature Value

*600#

This will check the current temperature for the sensor.

6.2   High Temperature Alarm Set Point

*601*A*BBB#

A = No. of channel for Temperature Sensor

BBB = Temperature set point from -49 to 129 °C

Temperature set point, when negative – must be in front, always 3 digits, so 5 degree = 005 etc.

Example: (Send) *601*1*-19#   which means channel 1 Temperature Probe detects the temperature. If it's more than -19°C, it will now Alarm Alert.

Note: when setting high temperature. The temperature must be higher than the low temperature value.

6.3   Low Temperature Alarm Set Point:

*602*A*BBB#

A = No. of channel for Temperature Sensor

BBB = Temperature set point from -49 to 129 degrees C.

Temperature set point, when negative – must be in front, always 3 digits, so 5 degree = 005 etc.

Example: (Send) *602*1*-43#   which means channel 1 Temperature Probe has detected the temperature less than -43°C, it will now Alarm Alert.

Note: Setting low temperature. The temperature must be lower than the high temperature value.

6.4   Enquiry For Temperature Alarm Set Points:

*603#

Enquire temperature alarm set points

Check what set points have been programmed in the unit already.

6.5   Delete High Temperature Alarm Set Points:

*604*X#

X = No. of channel for Temperature Sensor

Deleting the alarm set point for high temperature

Example: (Send)   *604*2# will delete the alarm set point for sensor 2 of the HIGH TEMPERATURE alarm.

6.6   Delete Low Temperature Alarm Set Points:

*605*X#

X = No. of channel for Temperature Sensor

Deleting the alarm set point for low temperature

Example: (Send)   *605*1# will delete the alarm set point for sensor 1 of the LOW TEMPERATURE alarm.

6.7   Temperature Calibration:

*606*A*BB#

A = No. of channel for Temperature Sensor

BB = -5 to +5 (calibrate temperature up and down, max. 5 degrees)

Example: When channel 2 temperature is more than the actual temperature by 3°C, then (send)   *606*2*-3#   the temperature will now be adjusted.

6.8   Temperature Alarm Delay Time

*607*A*BBBB#

A = No. of channel for Temperature Sensor

BBBB = delay time in seconds, from 0001 to Max. 6553 seconds (Max 109 minutes)

Delay is always 4 figures.   1 second = 0001

Default = 0001

Example: (Send)   *607*1*0025#   when Channel 1 Temperature detected abnormal temperature, if this happens for more than 25 seconds, it will send an alarm. But if the temperature is recovered, it will not send the alarm.

6.9   Each Group Temperature Alarm ON/ OFF:

*608*XX#

XX = First X as Channel 1, Second X as Channel 2, Sensor OFF=0, ON=1

Default ON.

Example: (Send)   *608*01# this means that sensor 1 is OFF and Sensor 2 is ON.

This is an Easy way to temporary switch off the temperature alarms.

Example:

If you want to set 2 Channels Temperature Alarm Alert can split to: 1 Channel use for Temperature Control, 1 Channel use for Temperature Alarm Alert. Please set as below:

Channel 1, Channel 2 using the same temperature probe. (Use wire to connect together the temperature probe with same marking of 2.

Note: The marking of 1 as temperature power +, marking of 2 as signal, marking of 3 as temperature power -).

Channel 1 setting as OFF alarm alert, activate the linkage (Send *205*11# to activate Linkage.Send *304*0*1*1#, the main relay will linkage with Temperature channel 1).

Relay out connect with one cooling Fan, and setting the temperature as: High Temperature Set Point as 110, Low Temperature Set Point as 105

Channel 2 setting as ON alarm alert, setting the temperature as: High Temperature Set Point as 125

The process as below;

When the temperature slowly increase, and over 110°C, the temperature at channel 1 will activate relay. The relay will activate the cooling fan.

If the temperature slowly decrease (not over 125°C) and continue till lower than 105°C, the temperature at channel 1 will OFF the cooling fan.

If the temperature did not decrease (cooling fan facing error), and over 125°C, channel 2 temperature alarm will send out a SMS to alarm alert

6.10   Alarm Text for High Temperature Alarm:

*609*A*BBBBBBBBB#

A = No. of channel for Temperature Sensor

BBBBBBBBB = Alarm text for high temperature alarms (Max 100 Characters)

Example: (Send) *609*4*High temperature alarm# when channel4 sends out an alarm, you will get the report message "High temperature alarm".

NOTE: When changing text string for this, it will not send the Temperature Set point, as it does when set to default alarm text.

(Default alarm text is "High temperature 1 alarm: xx degree Celsius")   (xx = temperature during the alarm alert).

6.11   Reset To Default Message For Temperature Alert:

*609*A*#

A = No. of channel for Temperature Sensor

Example: (Send) *609*4*#, channel 4 will reset the alert text back to factory default.

6.12   Input Message for the Recovery Temperature to Normal:

*610*A*BBBBBBBBB#

A = No. of channel for Temperature Sensor

BBBBBBBBB = text for alarm text when temperature is recovered.

6.13   Input Message for the Low Temperature Alert:

*611*A*BBBBBBBBB#

A = No. of channel for Temperature Sensor

BBBBBBBBB = Alarm text for low temperature alarm.

7.   Line Cut / Trigger Alarm Alert

7.1   Trigger Level for Line Cut Alarm Alert:

*700*XX#

XX = First X as Channel 1, Second X as Channel 2

0 = High Trigger Level (terminals when connected, will send an alarm)

1 = Low Trigger Level (terminals when disconnected, will send an alarm)

Example: (Send) *700*10# this means that when both terminals in channel 1 are connected, then suddenly they are disconnected, it will send out an Alarm. When both terminals in channel 2 are disconnected, then suddenly they are connected, it will send out an Alarm.

7.2   Recover from Trigger for Line Cut Alarm Alert:

*701*XX#

XX = First X as Channel 1, Second X as Channel 2

0 = OFF

1 = ON

Default as ON

Recover from Trigger for Line Cut Alarm means for example for normal situation, the terminal is connected, when it is disconnected and connected back, this is "connected back" is call Recover from Trigger for Line Cut Alarm

Example: (Send) *701*10# this means channel 1 are ON for Recover from Trigger for Line Cut Alarm and channel 2 are OFF for Recover from Trigger for Line Cut Alarm

Application;

2 channel Line Cut connected to 2 doors

When the door for the channel 1 open, the system will send the alarm alert for the channel 1, when the door close back, the system will send the recover message, when the door open again, it will trigger again the channel 1 alarm alert.

When the door for the channel 2 open, the system will send the alarm alert for the channel 2, when the door close back, the system will not send the recover message. It need to disarm and arm back the system, then only it can trigger again. (which means the door been open before)

7.3   Line Cut Alarm Delay Time:

*702*A*BBBB#

A = No. of channel for Line Cut Sensor

BBBB = time in seconds, Max. 6553 seconds. (Always in 4 figures, 1 second = 0001)

This function will delay the alarm. When the system detected the line cut is abnormal, start from now, the system will continuous to check the frequency 10 times per minutes, in BBBB time, detection with normal frequency, and the abnormal will become invalid. This will use frequently where it is at normal - abnormal status. This will useful for interference effect.

Example: (Send)   *702*1*0025#   when channel 1 for the line cut terminal detected with abnormal, it will not send an alarm, until 25 seconds after.

7.4   Alarm Text for Line Cut Alarm:

*703*A*BBBBBBBBB#

A = No. of channel for Line Cut Sensor

BBBBBBBBB = the text there will be sent when line cut is triggered. (Max. 100 characters)

Example: (send)   *703*1*Line alarm# when channel 1 line cut, a message will be sent saying "Line alarm".

7.5   Recover Text for Line Cut Alarm:

*704*A*BBBBBBBBB#

A = No. of channel for Line Cut Sensor

BBBBBBBBB = a text will be sent when line cut recovery happens. (Max 100 characters)

Example: (send)   *704*1*Line recover# when channel 1 for line cut recover, a message will be sent saying   "Line recover".

8. Programming And Maintenance Of The Guest

8.1 Create a Group Under The Guest List

*800*AAAAAAA*BBBBBBB#

AAAAAAA = Name of the group (Max: 7 char)

BBBBBBB = telephone NO. (Min: 3 digits, Max: 15 digits)

For example, Send *800*001*12345678# then there will be a new group called 001.

And first number in the Group 001 is 12345678

8.2 To Add Phone Number To a Group

Then you use the same command

*800*001*YYYYYYYY#

So, this is the second (2) number in the Group 001

8.3 Check Number In a Group

*801*AAAAAAA#

AAAAAAA = the Group Name

For example, To check number In the Group 001, you send *801*001#

Then the system will send an SMS with all No. programmed in Group 001

8.4 Delete Phone Number In a Group

*802*AAAAAAA*B#

AAAAAAA = the group name

B = Number On the list (1-8)

For example, Send *802*001*1# then the system will delete telephone number for the list number 1 in the group 001.

When all numbers in a group is deleted, the system will automatically delete the group.

8.5 Delete a Group

*803*XXXXXXX#

XXXXXXX = Group Name

For example, Send *803*001# then the whole group 001 with any telephone number will be delete.

8.6   Delete Complete Guest List

*804#

For example, Send *804# then the entire guest list will be deleted in the system, including all groups.

8.7   Change Group Name

*805*XXXXXXX*YYYYYYY#

XXXXXXX = Old Name

YYYYYYY = new name (Max: 7 char)

For example, Send *805*001*Club# will Group 001 now called Club