

# Temperature & Humidity SMS Alert Controller

Smart Energy Control ...

Energy Saving, Environment & Properties Protection



- Keep track of temperature & humidity
- Alert user via SMS on high/low temperature or humidity
- Control of other equipments e.g. air ventilation or dehumidifier
- Management Software Handling multi controllers in multi-sites
- Internal Rechargeable Battery No external power source needed

## Simple Installation & Setup

- SMS Alert Controller is designed and built for easy user installation.
- All the necessary components are assembled inside the unit
- Signal cables can be wired directly to the connectors



Three simple steps starting the unit:

1. Insert the SIM card
2. Plug in the sensors connectors
3. Connect the AC power cord

- ◆ AC 90~260V Auto Select
- ◆ Internal 2Ah Rechargeable Battery
- ◆ Non-Stop Operation in AC power loss
- ◆ SMS Alert on AC power loss



Wall Mountable



**Bundled Temperature & Humidity Sensors**  
[GSMS-TH-SX only]



Optional:

1] Extended External GSM Antenna

2] Submersible Temperature Sensor





## Application

Temperature & Humidity SMS Alert Controller can be utilized in monitoring the environmental condition for commercial, medical, food , storage, weather station, military, manufacturing industries.

It makes use of SMS to alert users of temperature and humidity conditions via SMS. By implementing the bundled Server/Client Software and GSM modem, a management system of multi-controllers can be built up to monitor a number of remote sites in one single centre.



Laboratory



Cold Storage



Food Processing



Medical Research



Food Storage



Data Centre

### When will the controller sends the data?

- On Schedule in periodic interval programmable by user
- Manual Check by user via SMS command
- Alarm SMS when temperature/humidity is higher than user preset values
- Alarm SMS when temperature/humidity is lower than user preset values
- Alarm SMS when input is triggered
- Alarm SMS when power supply voltage is low



# Temperature & Humidity SMS Alert Controller

## Features:

- Alarm Alert Modes—SMS, Phone Dial or Both
- Each alarm is associated with its own alarm SMS text
- Alarm SMS text is programmable by user remotely via SMS or Setup Software
- Configuration can be modified by user remotely via SMS or Setup Software
- Arm or Disarm by SMS or Setup Software
- Relay triggered by alarm or SMS command
- Verification of command by return SMS

## Electrical & Physical Specification

- |   |  |
|---|--|
| <ul style="list-style-type: none"> <li>• Programmable high/low temp/humidity values</li> <li>• 8 x Alarm Inputs (DC8~15V) N/C, N/O, State Change</li> <li>• 2 x Relay Outputs (Dry Contact) N/C, N/O</li> <li>• 4 x Mobile &amp; 2 x Control Centre Phone Number</li> <li>• 2 x Central Station monitoring number</li> <li>• Rechargeable Battery 12VDC, 2Ah (~ 7days) GSMS-THR</li> <li>• 9VDC, 6 Ah (~ 1 month) GSMS-THP</li> <li>• Operating Temp: -50 ~ 70°C</li> <li>• Standby: -55 ~ 85°C</li> <li>• AD Converter Resolution: 12 bit</li> </ul> | <p>Power Consumption</p> <p>Send/Receive SMS: 500mA</p> <p>Standby Mode: 30mA</p> <p>Max. Rating: &lt;2A</p> <p>Measuring Range</p> <p>Temperature : -55 ~ 125 °C</p> <p>Accuracy: +/- 0.5 °C</p> <p>Sensor Resolution: 12 bit (0.0625 °C)</p> <p>Humidity: 1 ~ 100% RH</p> <p>Accuracy: +/- 5% RH</p> <p>Resolution: 12 bit</p> |
|---|--|

### GSMS-THR

- 90~260VAC Auto Select
- Backup Rechargeable Battery
- Metal Casing
- 205 x 105 x 42 mm



### GSMS-THP

- Internal Hi-Capacity Battery
- Aluminum IP67 Enclosure
- 210 x 130 x 60 mm



	GSMS-THR-X	GSMS-THR-SX	GSMS-THP-X	GSMS-THP-SX
AC Power [rechargeable battery backup]	✓	✓	—	—
High Capacity Battery 9VDC, 6Ah	—	—	✓	✓
Metal Casing	✓	✓	—	—
Aluminum Casing [IP67 water proof]	—	—	✓	✓
AD Channels	2	0	2	0
Temperature & Humidity Sensors	0	1T + 1H	0	1T + 1H



## Software

Complete set of software is ready for working with [SMS Alert Controller].

Besides using mobile phone in sending command or receiving data, GSM modem will take advantage of computer software in:

1. Setting up the controller configuration
2. Receiving the live data from controllers, and maintain the historical database
3. Allowing a number of client computers to access the data over the network

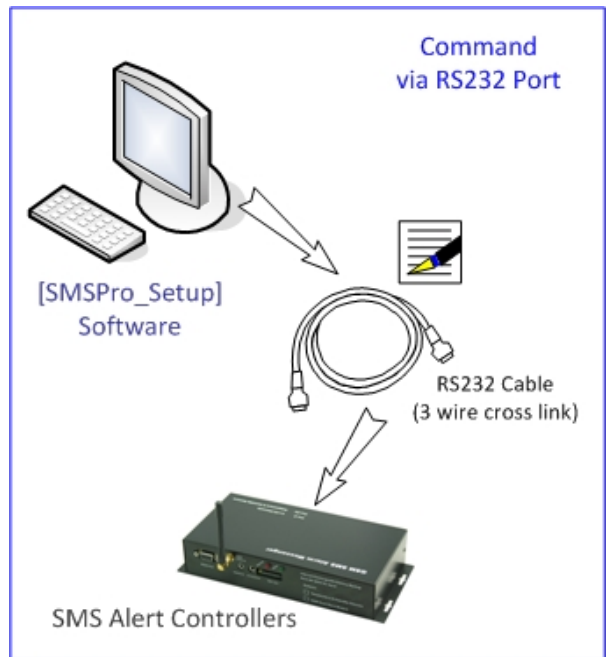
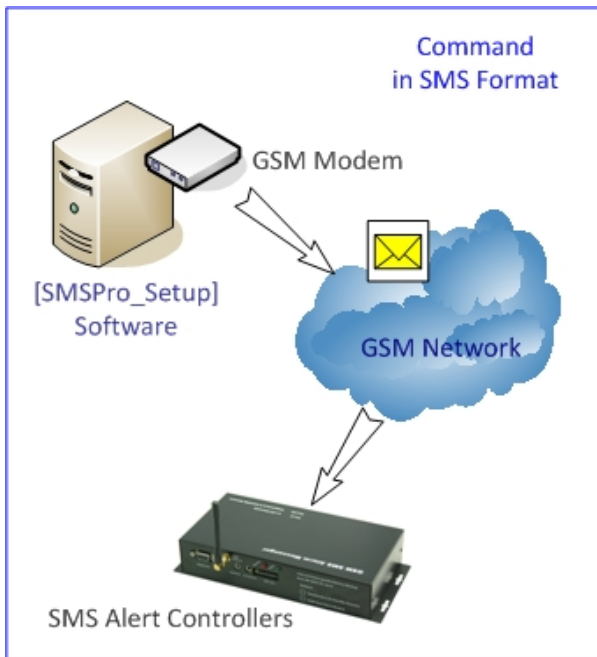
## Setup

### Setup software

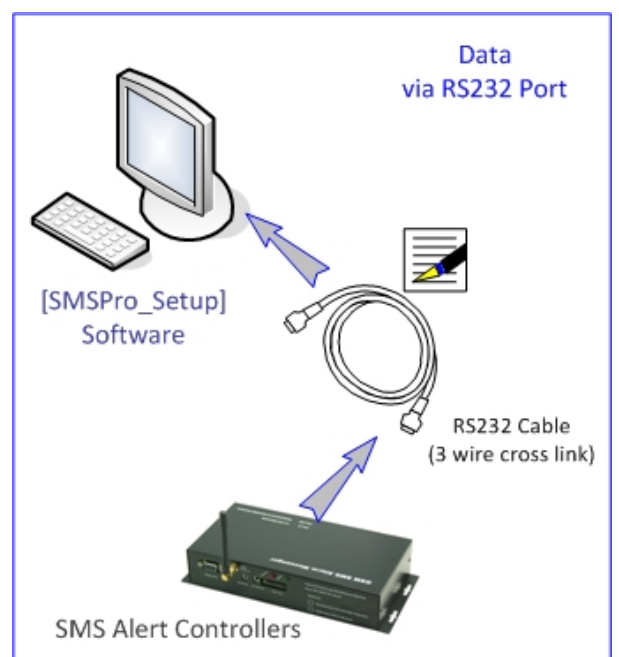
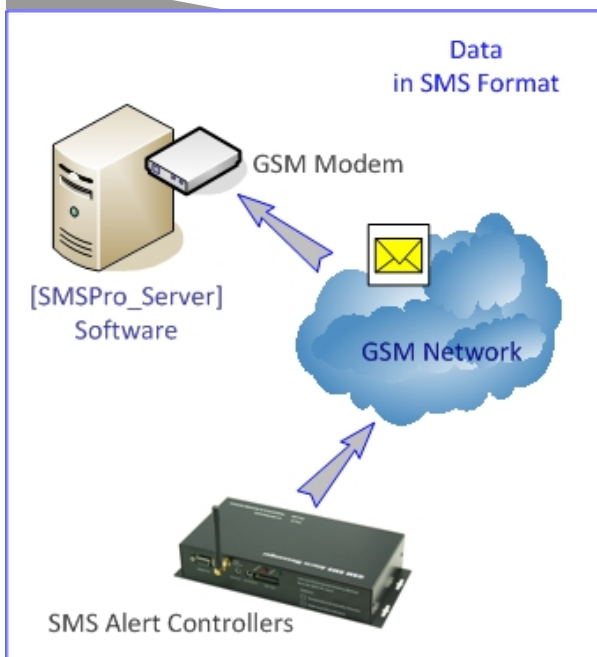
- Remote setup via SMS

- Modify the configuration of controllers
- Check the health status of controllers

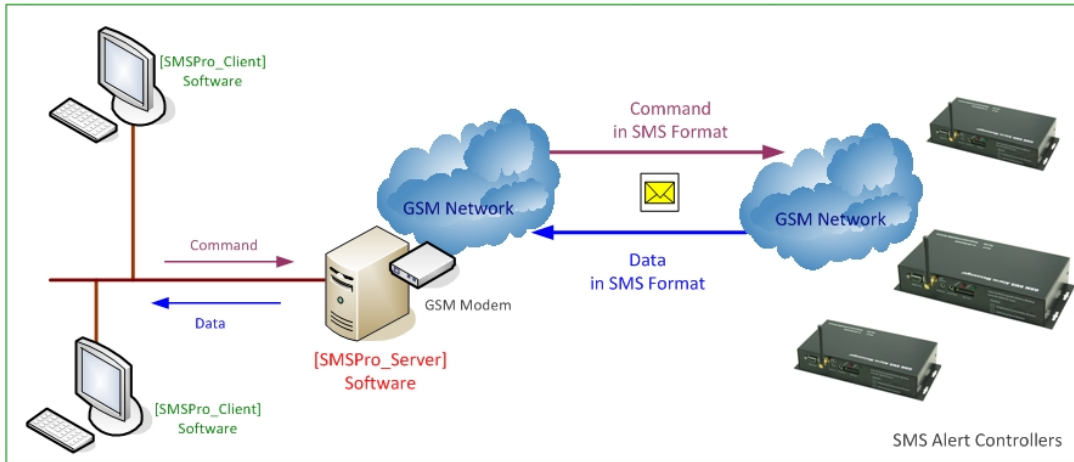
- Local setup via RS232



## Server



# Client

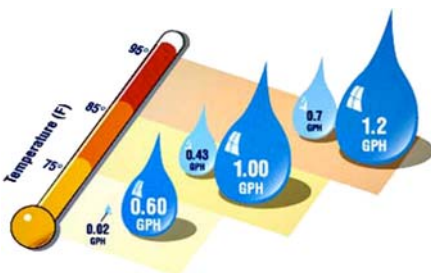


## Server software

- Keep receiving the SMS from controllers
- Maintain the historical records in MySQL database
- Manage clients in accessing the data
- Alert clients in alarm SMS

## Client software

- Keep tracking of temperature/humidity from the server
- Alert user on alarm temperature or humidity
- Manage live data from multi-controllers
- Manage controllers in multi-sites



## Automatic Calibration of Temperature and Humidity Sensor

- Intelligent calibration
- One button operation
- No technical skill is needed



## Software Edition

### Software Comparison

Edition	GSMS-CENTRE	GSMS-SERVER
<b>[A] Management Software</b>		
Receive Data via SMS	—	Yes
Receive Data via RS232 Port	—	Yes
Live Data Display	Yes	Yes
Database	txt	MySQL/SQL/Oracle
XML	—	Yes
Data Export to Excel	—	Yes
Remote Command via SMS	—	Yes
Schedule Command	—	Yes
Batch Command	—	Yes
Temperature & Humidity Alert	—	Yes
Send Alarm Alert via TCP network	—	Yes
Send Alarm Alert via email	—	Yes
Send Alarm Alert via SMS	—	Yes
Alert Users Grouping	—	Yes
Alert Emails Grouping	—	Yes
Client Software support	—	Yes
Max. Data Loggers simultaneous support	99	9999
Data Loggers Management	—	Yes
User Authentication & Management	—	Yes
Network Client Authentication & Management	—	Yes
Web Based Access support	—	Yes
SDK for user development	—	Yes
<b>[B] Client Software</b>	N.A.	Bundled
Live Data Display	—	Yes
Alarm Alert	—	Yes
Graphic Display of Temperature & Humidity	—	Yes
Temperature & Humidity Hi/Low Alert	—	Yes
Historical Data Access	—	Yes