

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"> • Programmable high/low temp/humidity values • 8 x Alarm Inputs (DC8~15V) N/C, N/O, State Change • 2 x Relay Outputs (Dry Contact) N/C, N/O • 4 x Mobile & 2 x Control Centre Phone Number • 2 x Central Station monitoring number • Rechargeable Battery 12VDC, 2Ah (~ 7days) GSMS-THR • 9VDC, 6 Ah (~ 1 month) GSMS-THP • Operating Temp: -50 ~ 70°C • Standby: -55 ~ 85°C • AD Converter Resolution: 12 bit | <p>Power Consumption</p> <p>Send/Receive SMS: 500mA</p> <p>Standby Mode: 30mA</p> <p>Max. Rating: <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

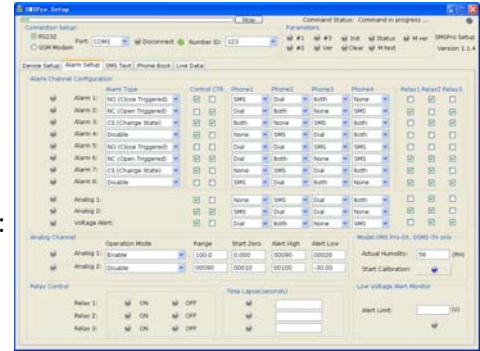


Free Setup Software

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

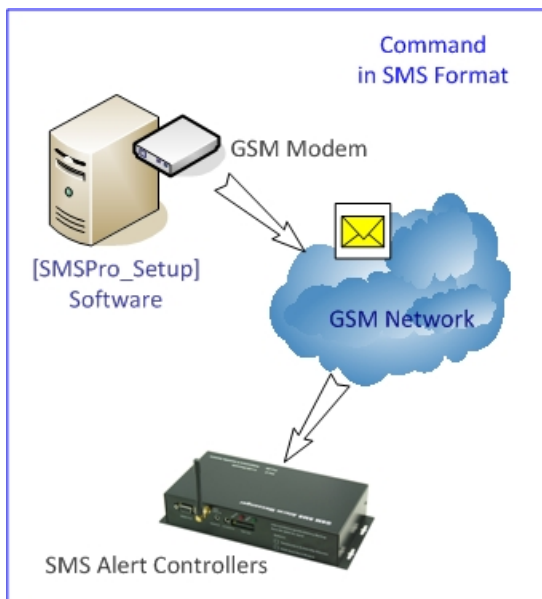
Besides using mobile phone in sending command or receiving data, GSM modem will take advantage of computer software in:

1. Setting up the controller configuration
2. Receiving the live data from controller

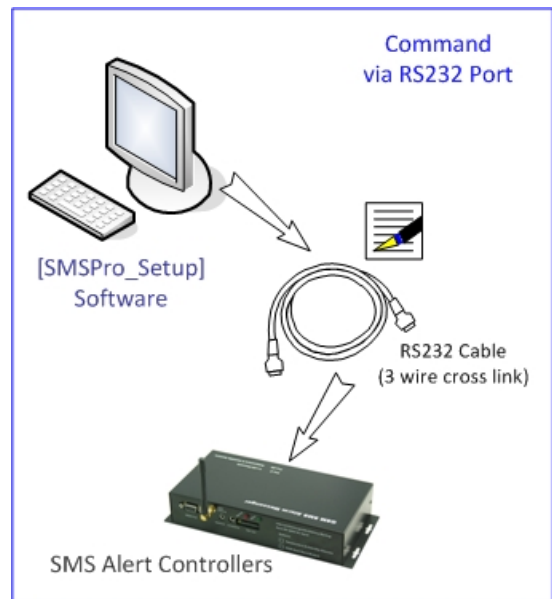


Sending Command

▶▶ Remote setup via SMS

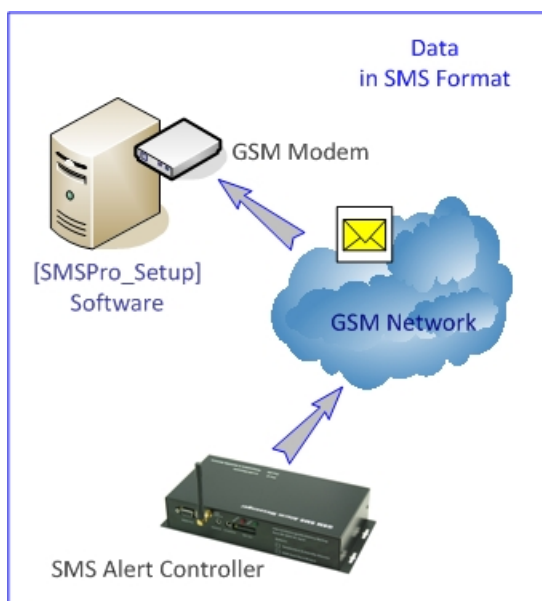


▶▶ Local setup via RS232

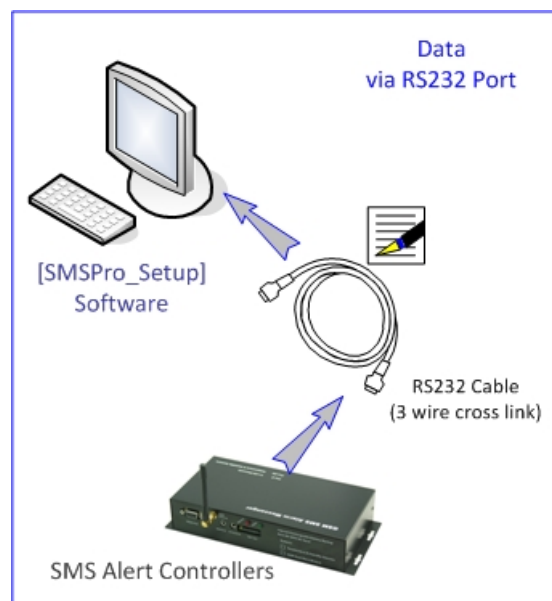


Receiving Data

▶▶ Remote receiving data via SMS



▶▶ Local receiving data via RS232





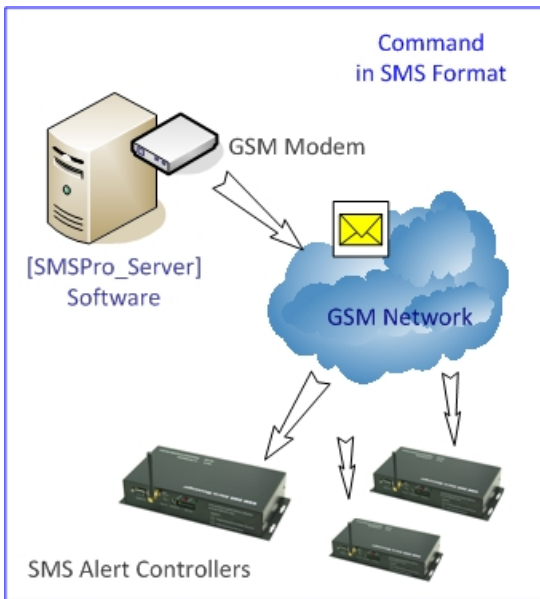
Premium Server

It provides the data and command management in handling a number of SMS Alert Controllers simultaneously.

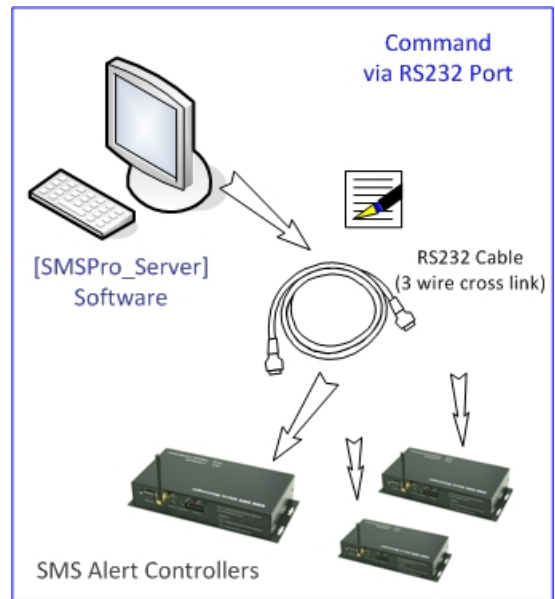
1. Configure multi-controllers locally and remotely
2. Receiving the live data from multi-controllers locally and remotely
3. Maintaining database in XML/SQL/MySQL/Oracle format
4. Allowing a number of client computers to access the data over the network

Setup multi-controllers

▶▶ Remote setup via SMS

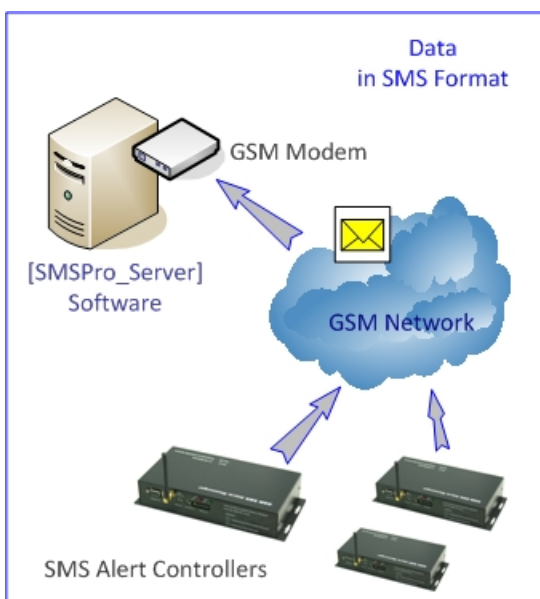


▶▶ Local setup via RS232

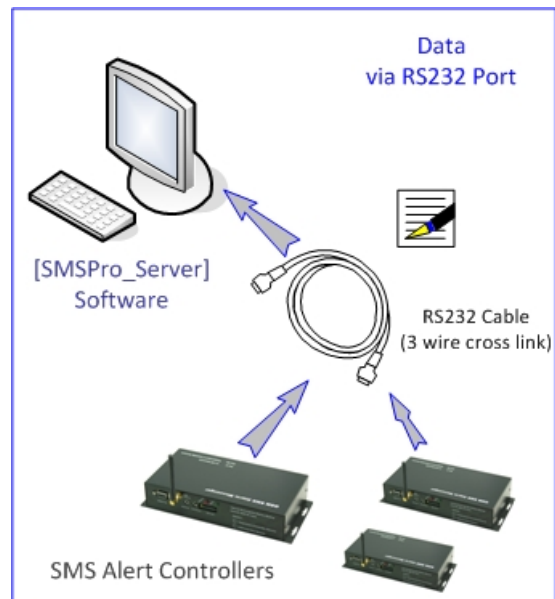


Receiving Data from multi-controllers

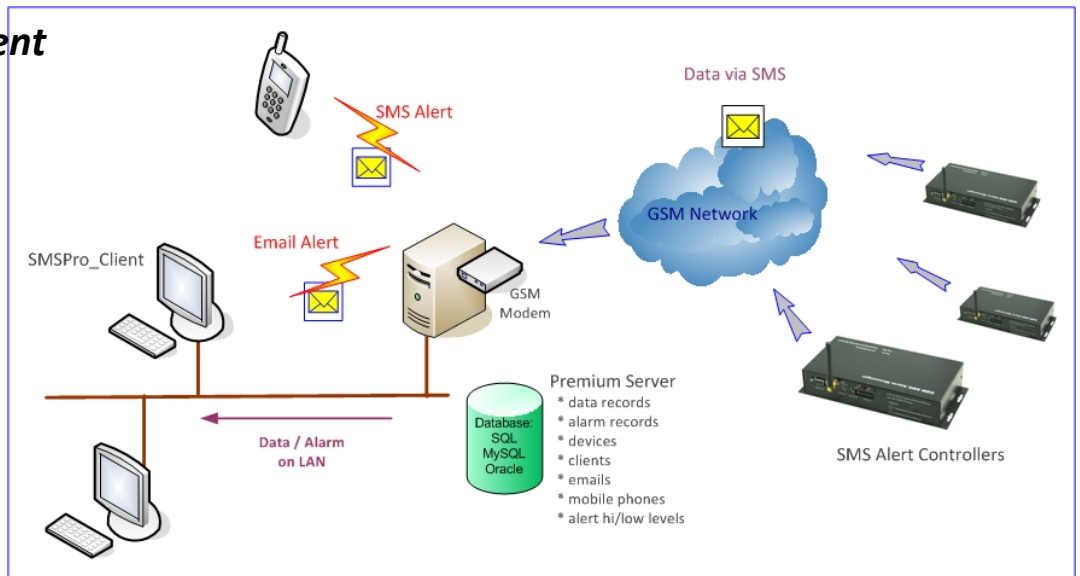
▶▶ Remote receiving data via SMS



▶▶ Local receiving data 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/email/TCP

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

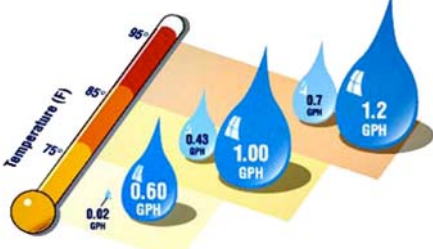
The screenshots show the **SMS Pro Server** and **SMS Pro Client** interfaces. The server interface displays a list of devices with columns for Number, Header, ID, Name, Date, and Time. The client interface shows a dashboard with real-time data for humidity and temperature, and a table of alert history.

Alert	DeviceID	Name	SMS Type	Humidity	Temperature	Date	Time
●	002	002	SMS Pro-S4	● 25.84	● 23.62-20	2009-01-13	18:15:00
●	002	002	SMS Pro-S4	● 25.56	● 23.93-20	2009-01-13	18:10:00
●	001	001	SMS Pro-S4	● 77.69-50	● 26.67	2009-01-13	18:05:00
●	123	123	SMS Pro-S4	● 27.58-60	● 25.43	2009-01-13	17:55:00
●	123	123	SMS Pro-S4	● 25.22	● 24.18-20	2009-01-13	17:50:00
●	123	123	SMS Pro-S4	● 24.88	● 25.25-20	2009-01-13	17:45:00
●	123	123	SMS Pro-S4	● 58.81-30	● 26.61-20	2009-01-13	17:40:00
●	123	123	SMS Pro-S4	● 60.19-30	● 24.81-20	2009-01-13	17:35:00
●	123	123	SMS Pro-S4	● 23.58	● 24.12-20	2009-01-13	17:30:00
●	123	123	SMS Pro-S4	● 23.78-50	● 24.18-50	2009-01-13	17:25:00
●	000-0	000-0	SMS Pro-S4	● 0.00-0	● 05.00	2009-01-13	17:19:00



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
[A] Management Software		
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] Client Software	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

GSSM-Centre & GSMS-Server are sold with GSM Modem in package as optional.