SMS Alarm Messenger
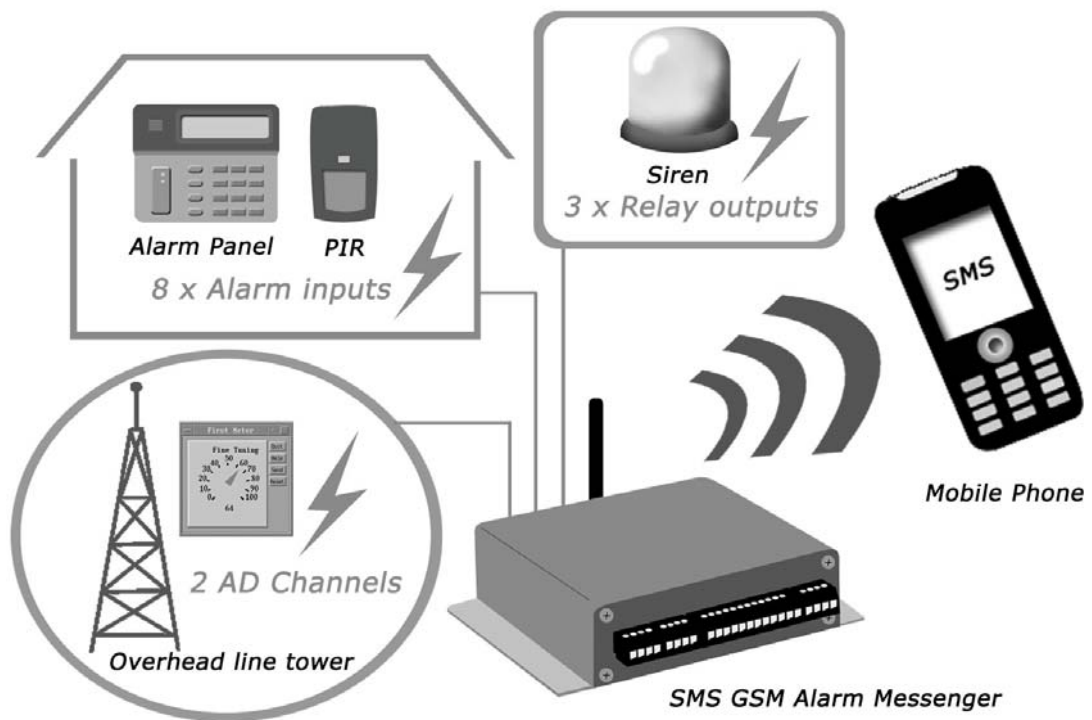
Setup Software Guide

SMSPro_Setup

Revision 090210 [Version 2.2]

Contents

1. How to setup SMS Alarm Messenger?

There are three different ways of setting up the SMS Alarm Messenger.

This manual is mainly describing the use of SMS Pro Setup software via RS232 cable and GSM Modem.

a. Via SMS by Mobile Phone:

- Please refer the command list to the operation manual of SMS Alarm Messenger.
- Each command will be responded with reply SMS message from SMS Alarm Messenger to confirm the success of setup.
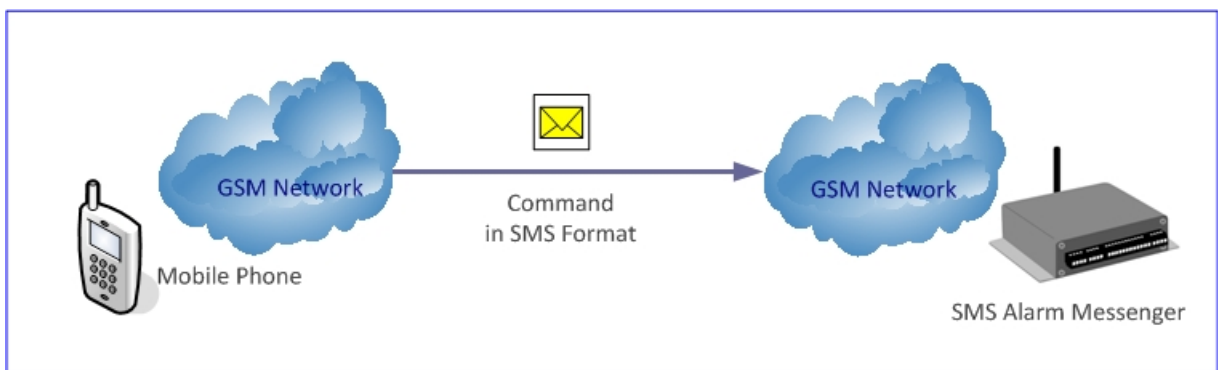

b. Via GSM Modem by PC:

- "SMS Pro Setup" software is provided for this setup operation.
- A GSM Modem is needed. GS300 is recommended.
- It can be selected on the main screen of "SMS Pro Setup" software as below.
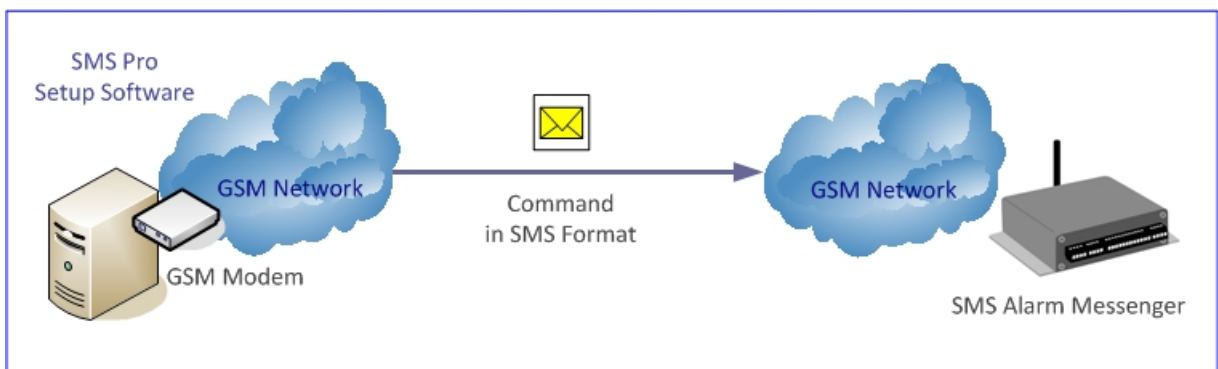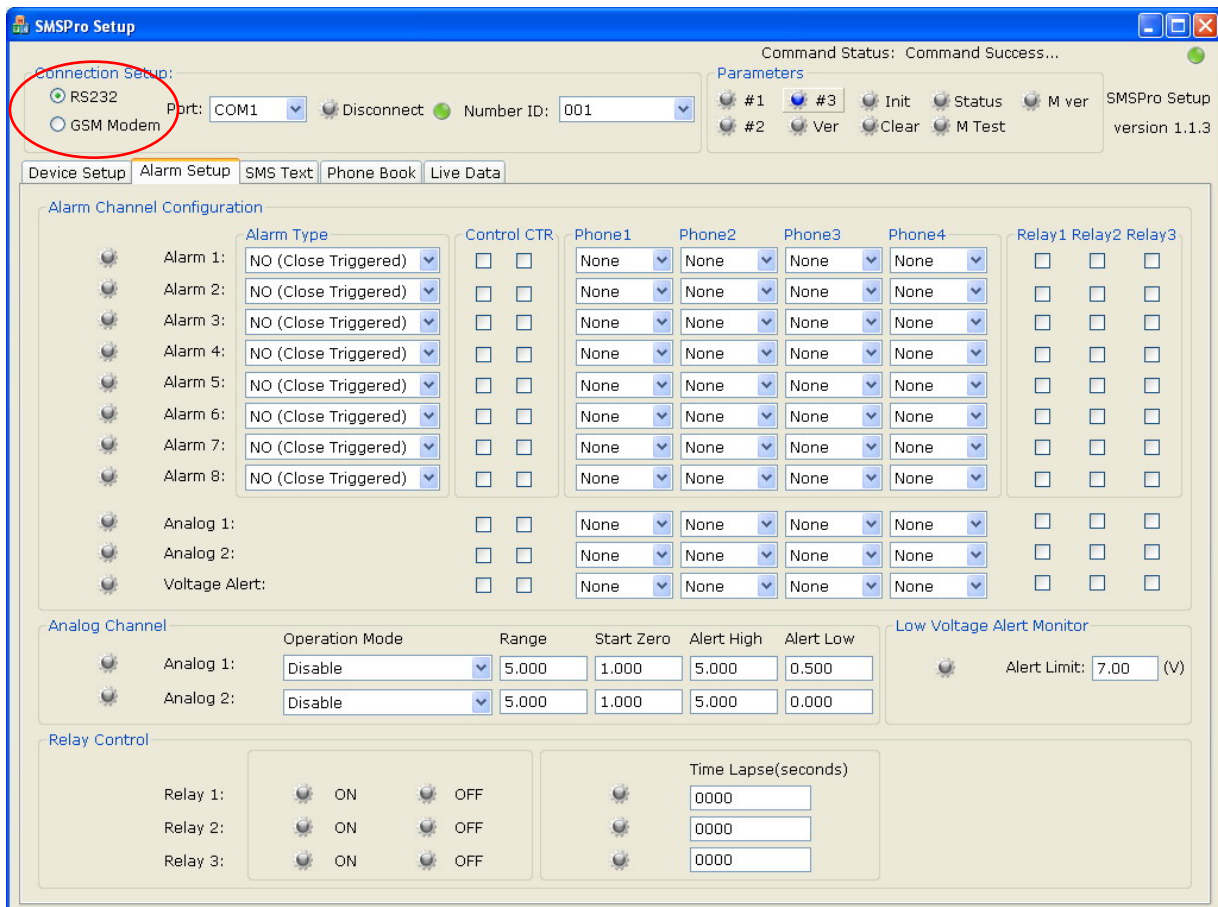
   c. Via RS232 Cable by PC:

- "SMS Pro Setup" software is provided for this setup operation.
- 3-wired type RS232 serial cable must be connected first.
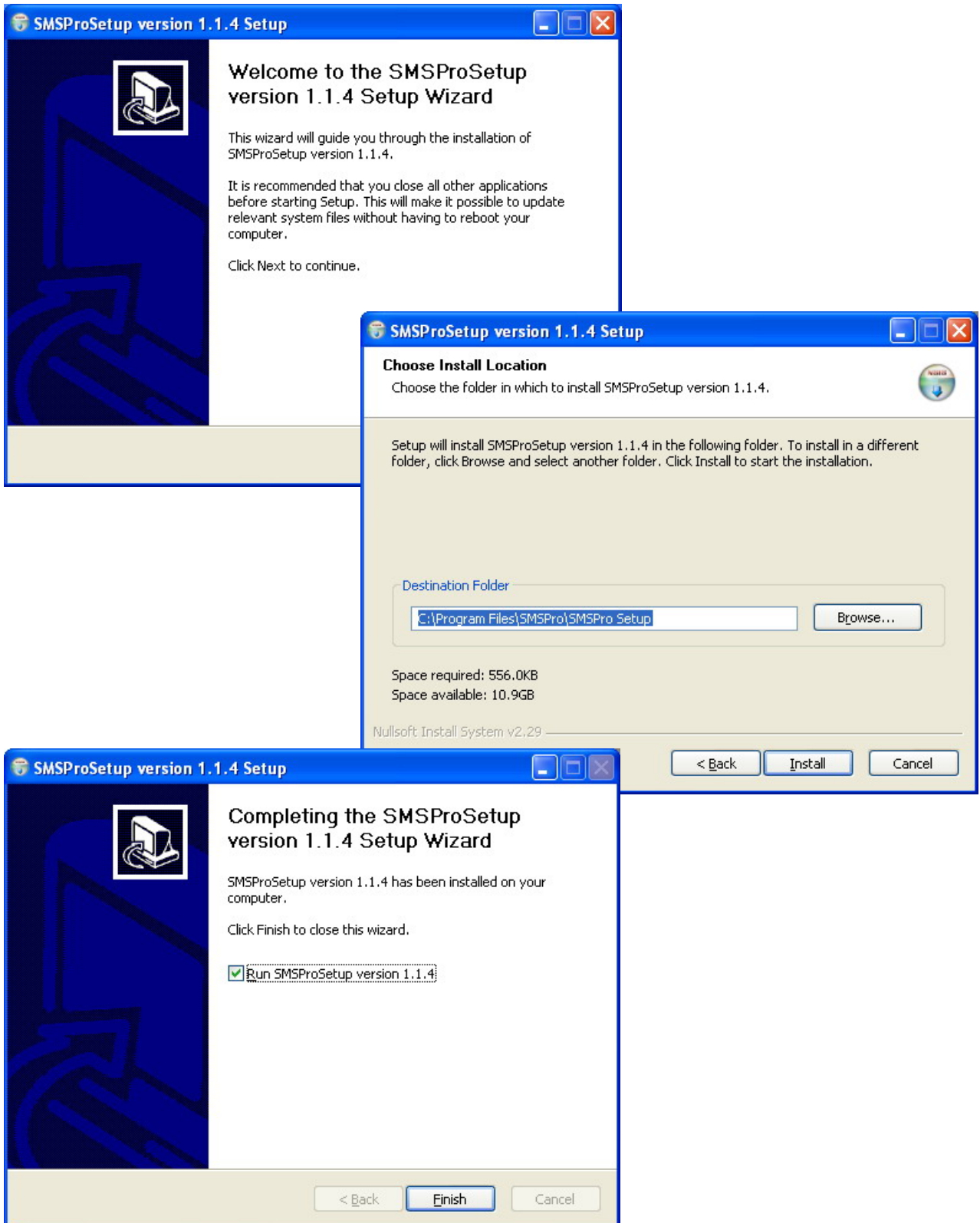- It can be selected on the main screen of "SMS Pro Setup" software as below.
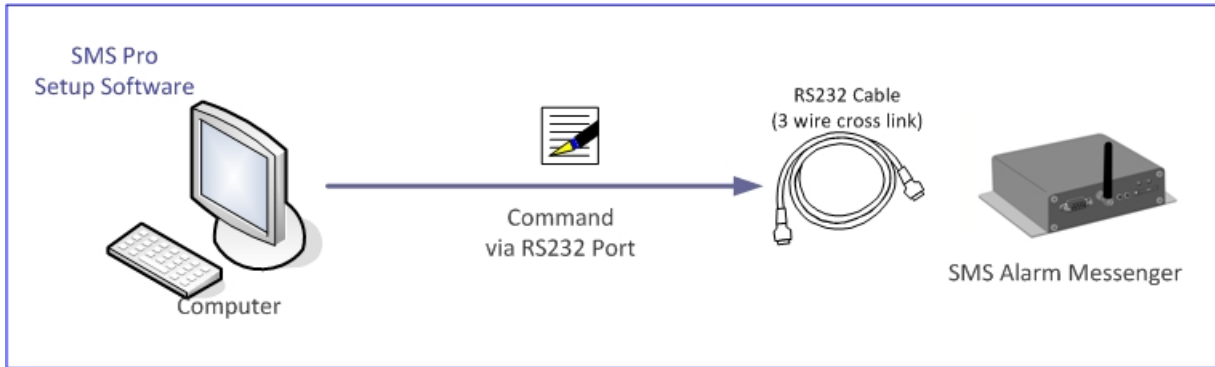
[SMS Pro_Setup Software] screen shot
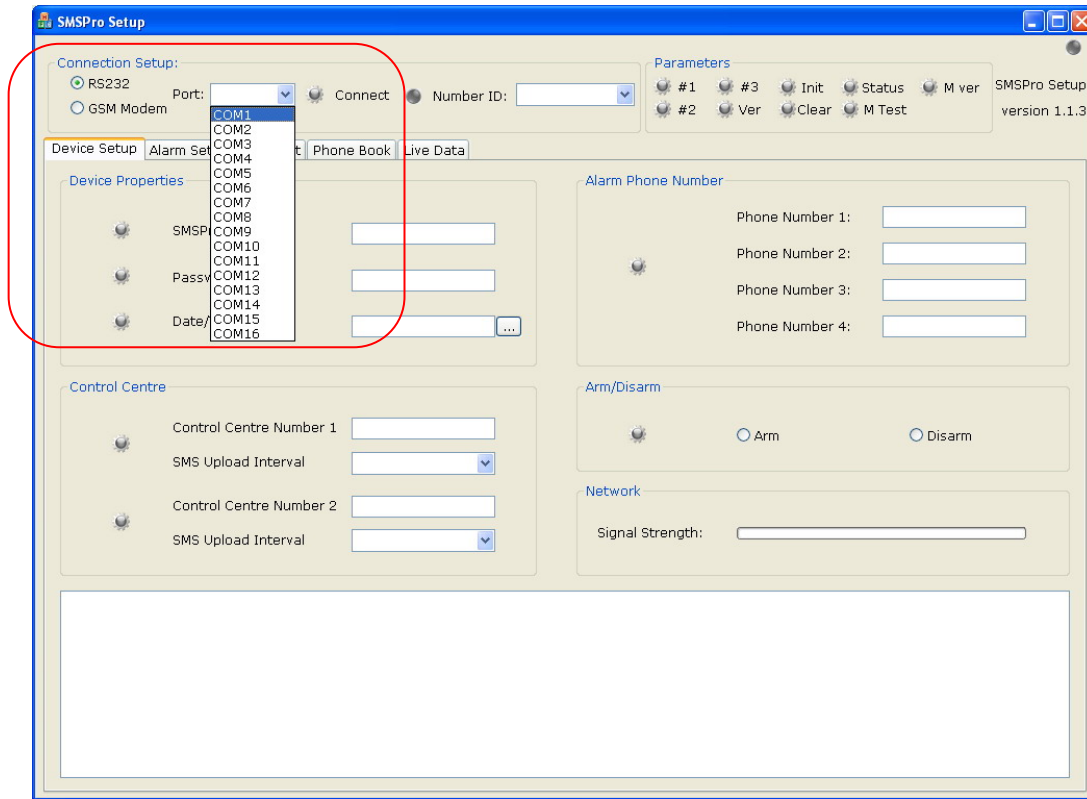
2. Install the "SMSPro_Setup" software

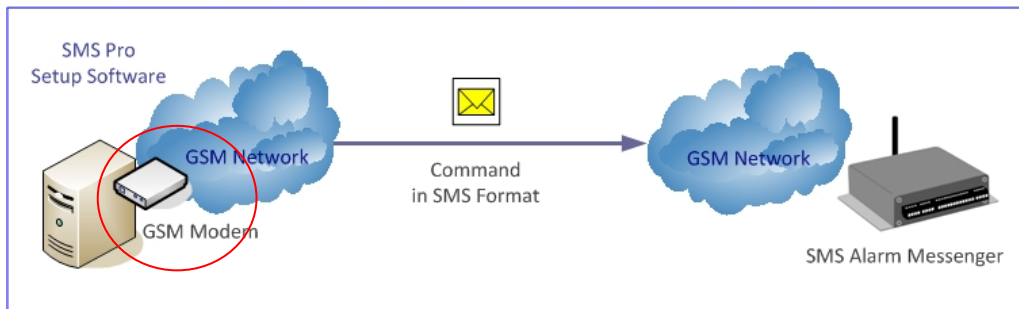Run SMSPro_Setup, and follow the instructions
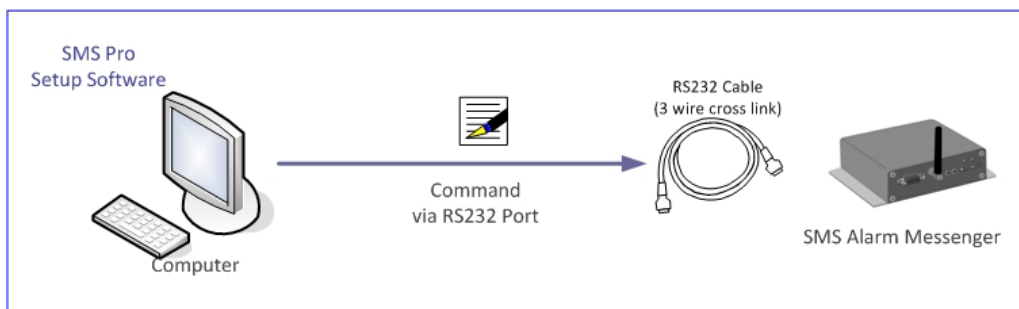
3. Connection Type

Connection

- Select the Connection Type, COM Port, and Click [Connect] button

- Green LED indicates the successful connection

- For GSM Modem, please check which COM port is connected to the modem physically.
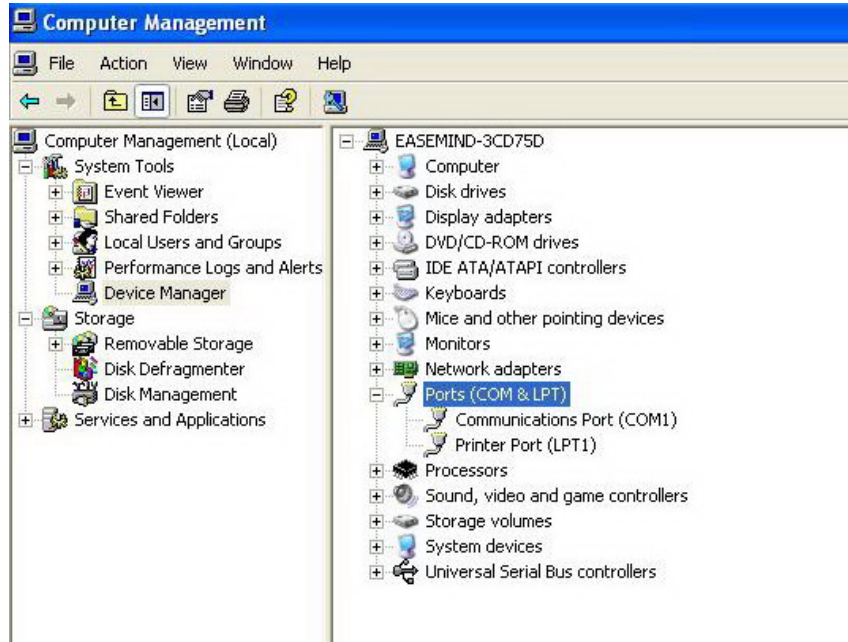

- For RS232, please check which COM port is connected to the SMS Alarm Messenger physically.
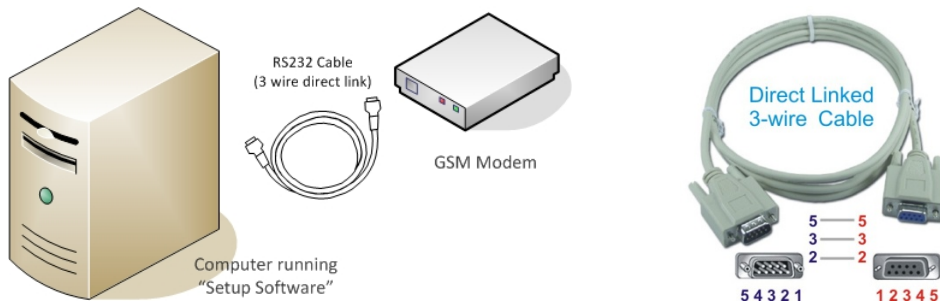
4. Connection Port & Cable

Connection Port

- please check which COM port is connected to the GSM Modem or SMS Alarm Messenger physically

Connection Cable

- GSM Modem Connection: "direct link RS232 cable" should be used

- Direct RS232 Connection: "cross link RS232 cable" should be used
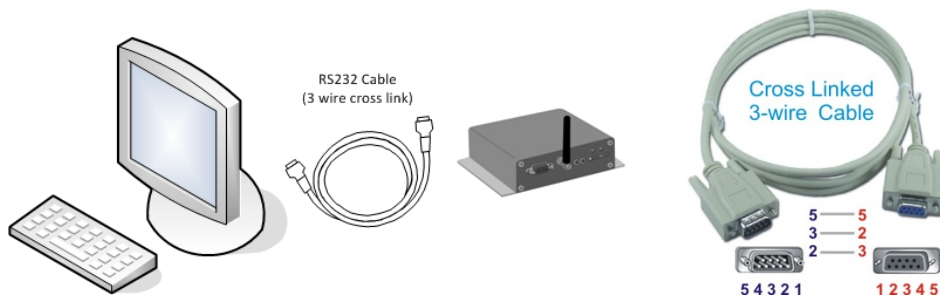
5.   Quick Start Up

- Connect the RS232 Cable or GSM Modem, select [Connection Type] and [COM Port]

- Click [Connect] button, green LED indicates the successful connection

- Add a new device in [Phone Book] tab

- In [Device Setup] tab, select the [Number ID], and Click [Ver] button.

- If its version is shown on the bottom, the device works properly

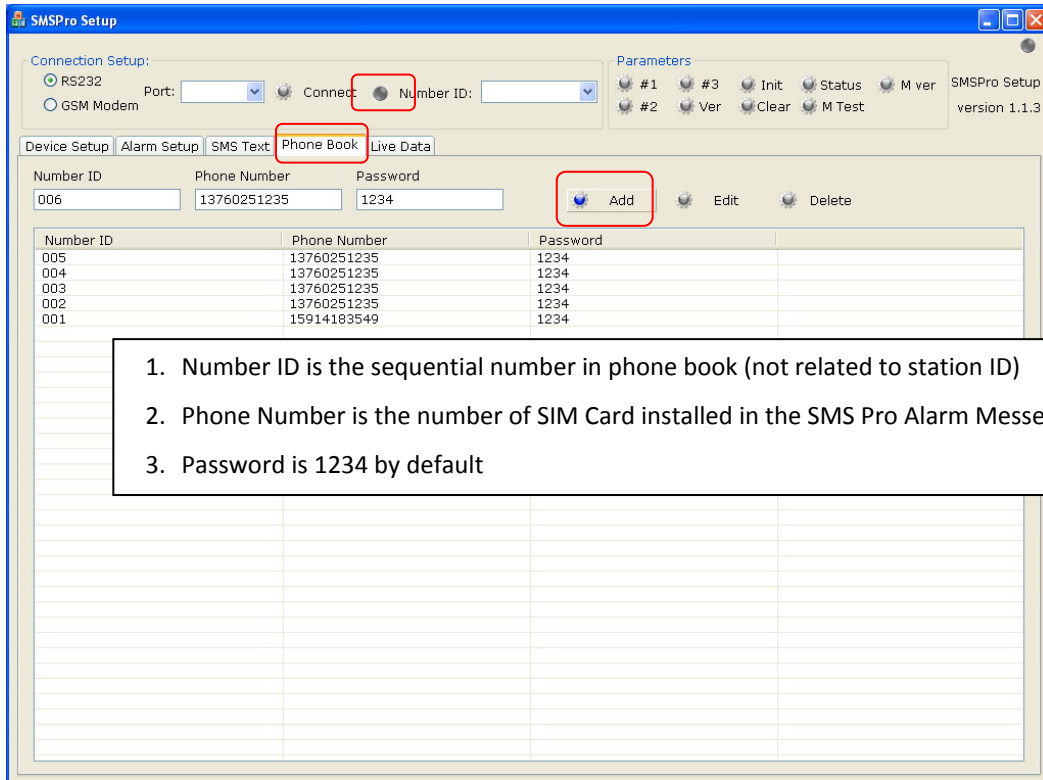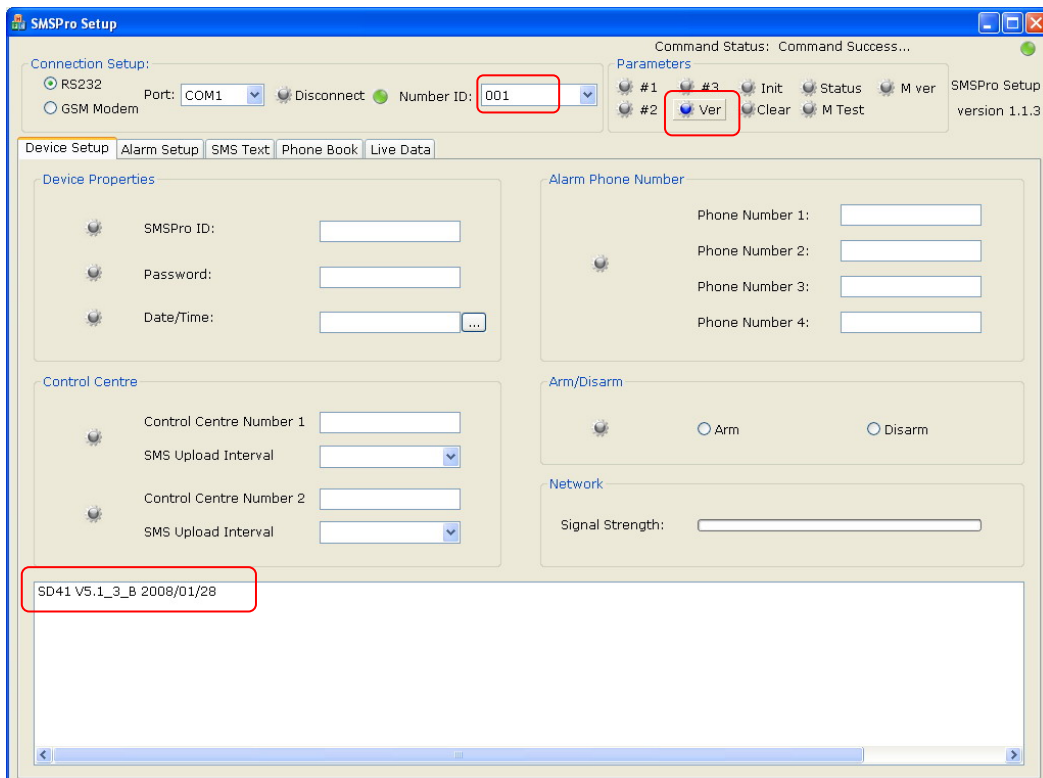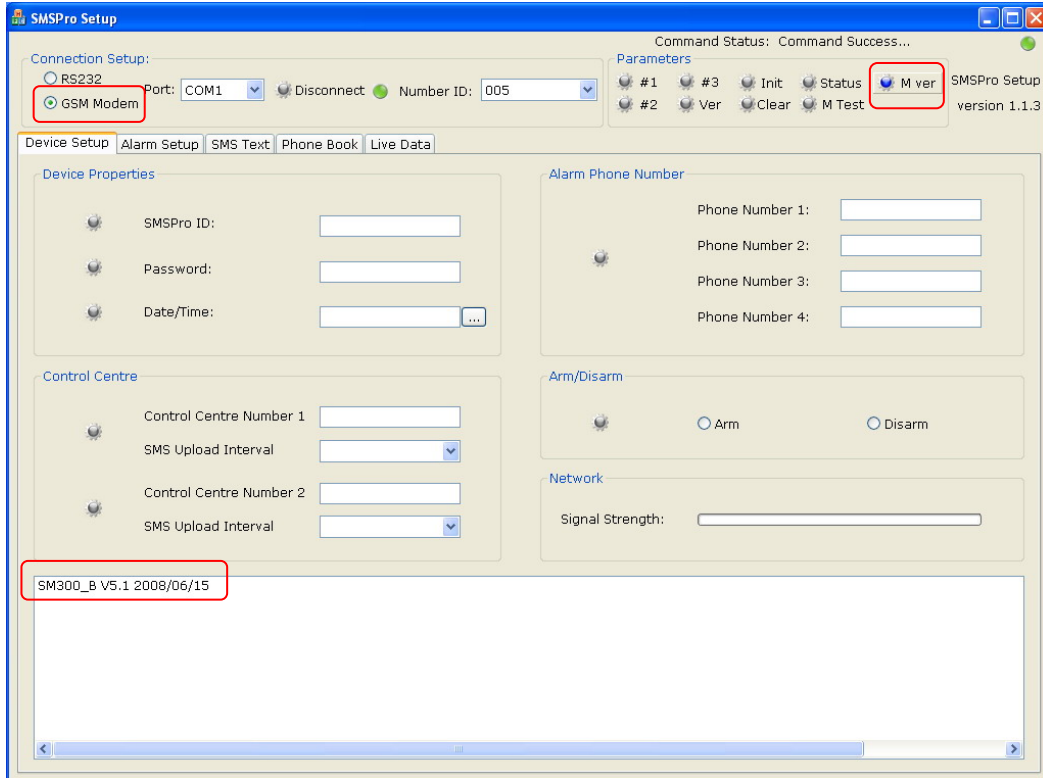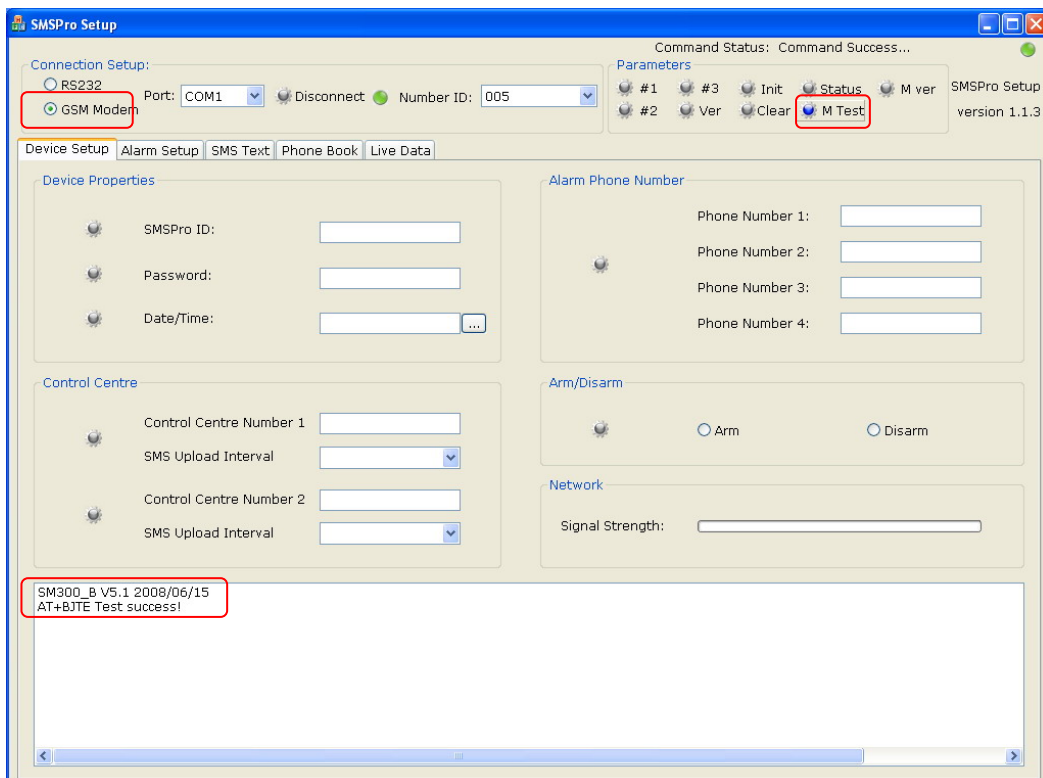## 6. GSM Modem Check

- Connect the GSM Modem with "Direct Link Serial Cable", select [GSM Modem] and COM port

- Click [Connect] button, green LED indicates the successful connection

- Click [M ver] button to check the version of GSM Modem

- Click [M Test] button to test the GSM Modem

7. Phone Book

- Go to the [Phone Book] tab, a new SMS Alarm Messenger must be added in phone book before setup

- Add the properties of a new SMS Alarm Messenger to the phone book in Setup Mode

- Factory Default of SMS Alarm Messenger properties

    Number ID: 0001

                      (Sequential number in phone book, but not related to SMS Pro ID number)

    Phone Number: phone number of SIM Card installed in the SMS Pro

    Password: 1234   (by default)
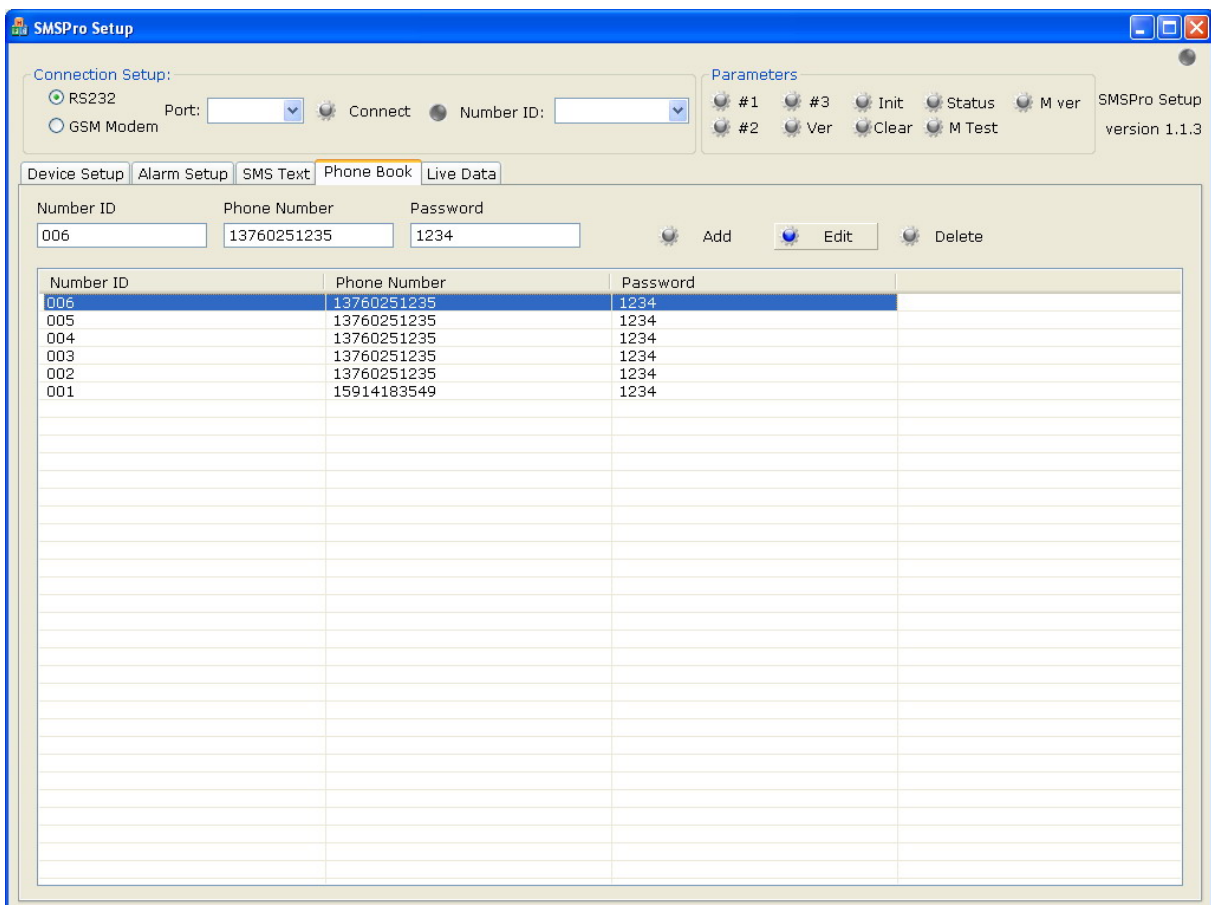
- "Password" of SMS Alarm Messenger in phonebook must match its internal passwords.

- Once the properties are modified in [Device Setup] page, the database of Phone Book should be updated manually.

- Whenever SMS Alarm Messenger internal password is modified, the corresponding password in the phonebook must be updated manually at the same time.

- Number ID is for database reference only, and not related to the SMS Pro ID (Station ID) internally stored in SMS Alarm Messenger.

8. Reading Internal Parameters

It is useful to read the current information stored in the SMS Alarm Messenger. Following information will be displayed on its corresponding fields.

- Current configuration
- Current health status
- SMS text message associated with each alarm

Detail of each parameter# check can be found on operation manual SMS Alarm Messenger Manual.

Click the buttons for corresponding parameters:

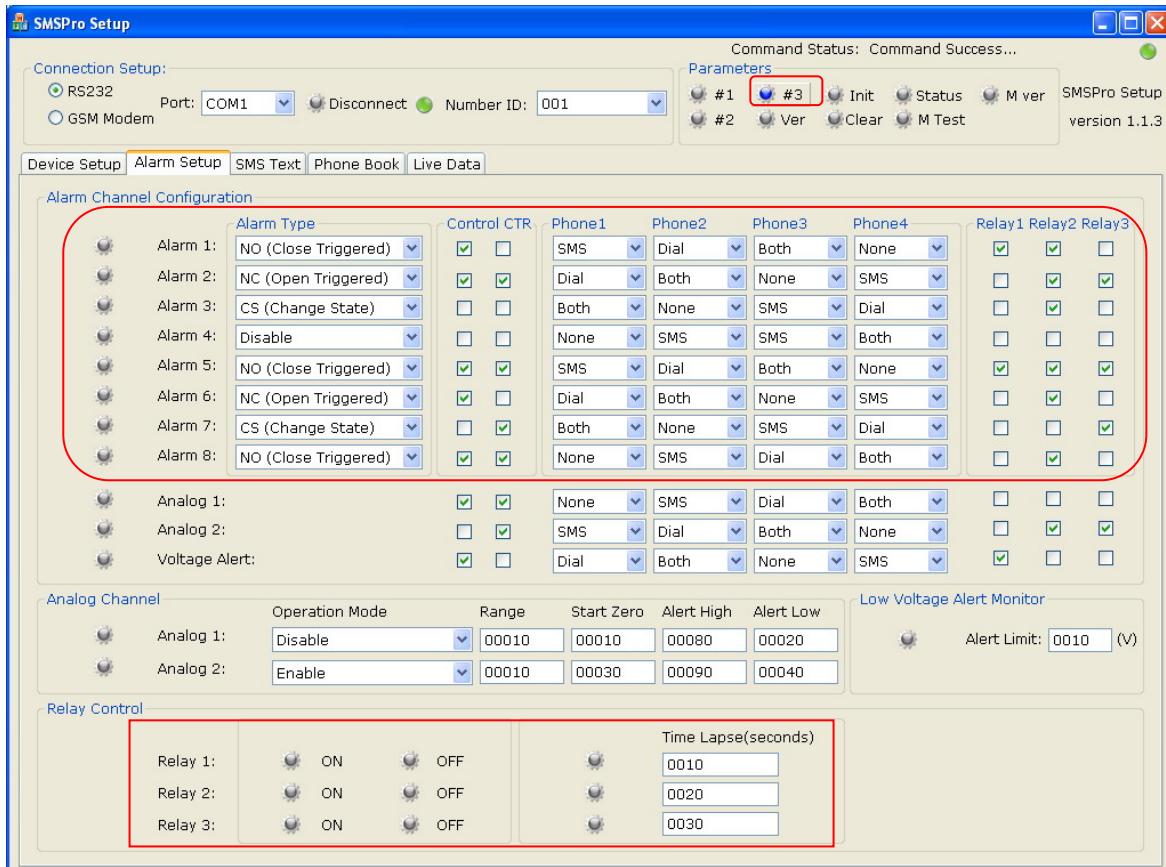| Button	Command
#1	Parameter#1 Check
#2	Parameter#1 Check
#3	Parameter#3 Check
Status	SMS Pro Live Status
Ver	Version Check
#Init	Device Reset
Clear	Clear the information displayed

a) Click "#1" button, the Device Properties Setting will be displayed as below.
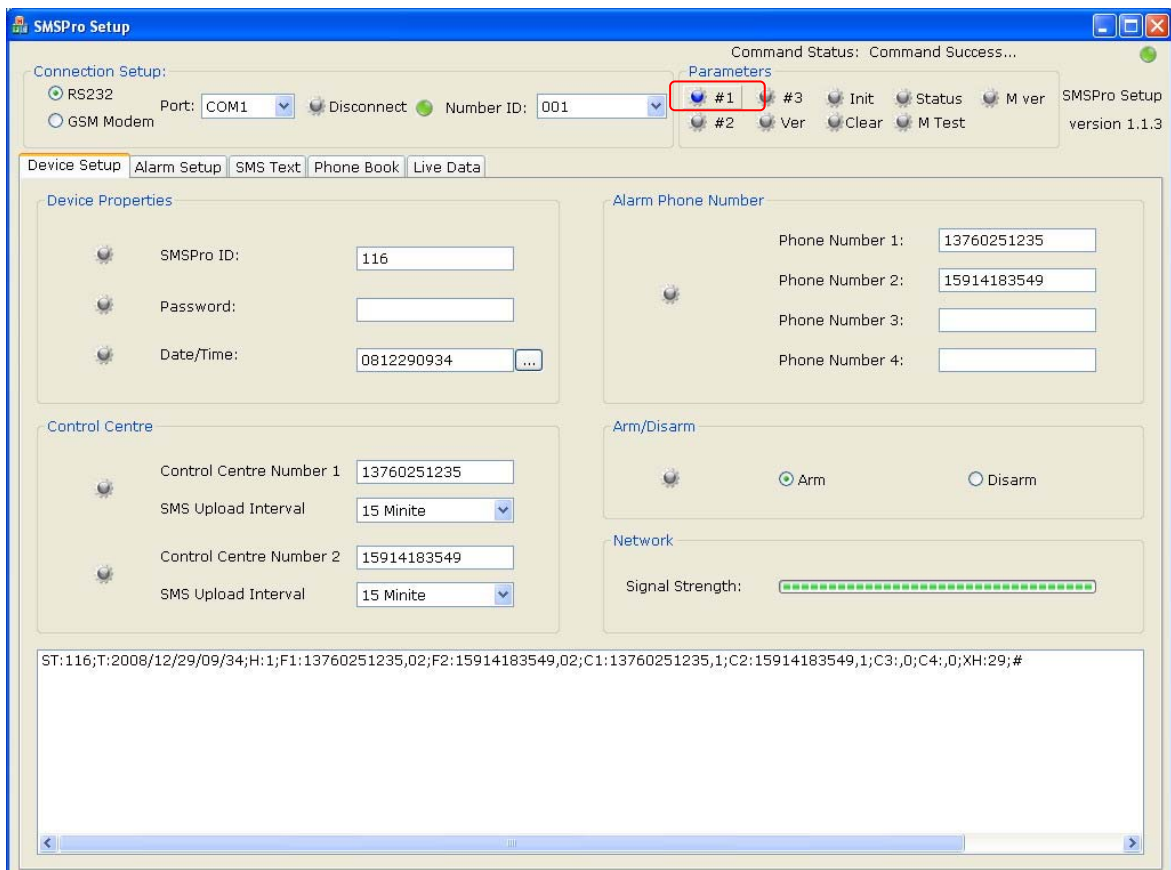
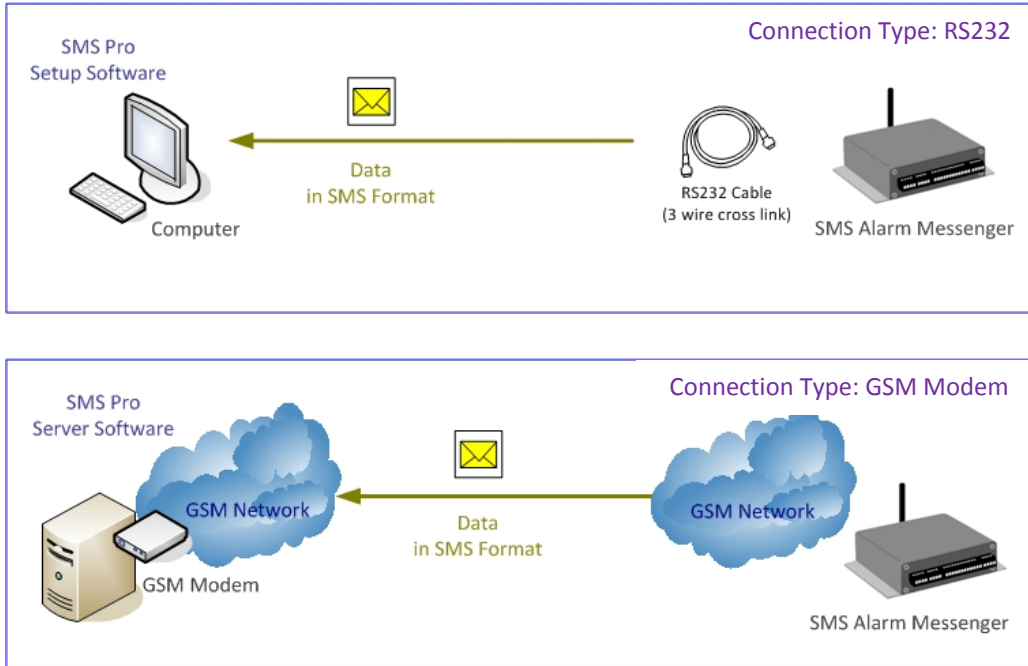b)   Click "#2" button, the Analog Alarm Setting will be displayed as below.
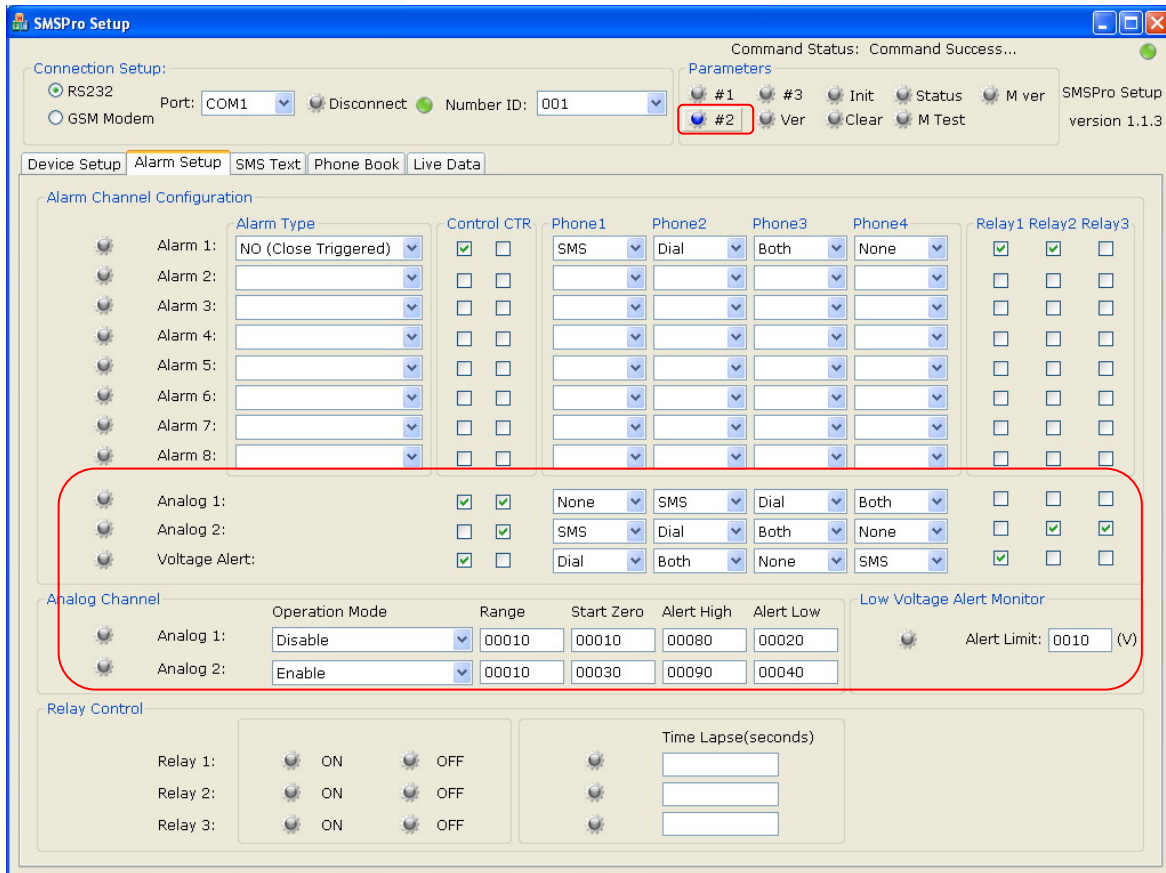
c)   Click "#3" button, the Digital Alarm Setting will be displayed as below.

9. Checking Live Data

Click "Status" button, the current status of alarm input and analog input channels will be displayed as below on [Live Data] tab.

This is the same command as "PWD:1234,STATUS%" sent by mobile phone.

Note:

- The software will not automatically download the data from the SMS Alarm Messenger. It will retrieve the live data only when the [Status] button is clicked manually.

- Live Data will not be saved but only displayed. Once [Clear] button is clicked or program is closed, all data will be cleared.

- "SMSPro_Server" software will automatically download the data from SMS Alarm Messenger, and maintain the data records in server database.
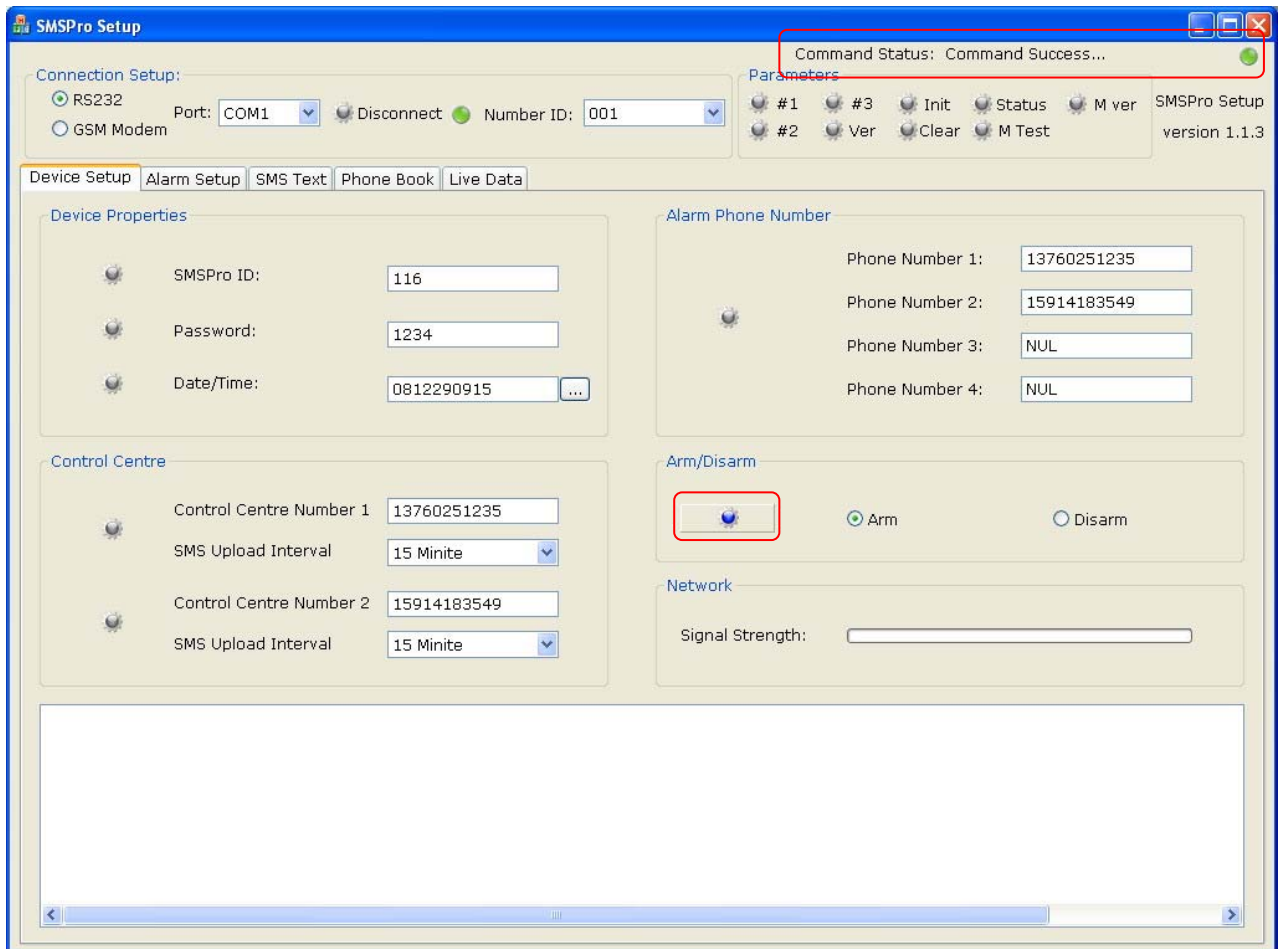
Please refer to the "SMSPro_Server" manual for the operation detail.

10. Device Setup

It is used to modify the properties of each SMS Alarm Messenger, and the routine operation parameters.

a) Selecting the option or modifying the parameters

b) Click [🔵] or [🔵 Set] button to activate the command.

Note:

• Command Status will display the progress of each command.

• Select the next parameter setup only when the current command is completed.

• Please refer the information and description of each command to the Operation Manual of SMS Alarm Messenger.

11. Alarm Setup

It is used to setup the alarm properties associated with alarm inputs and relay outputs.

- 8 x alarm inputs

- 2 x analog inputs

- 3 x relay Outputs

- Low Voltage Alert

a) Selecting the option or modifying the parameters

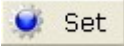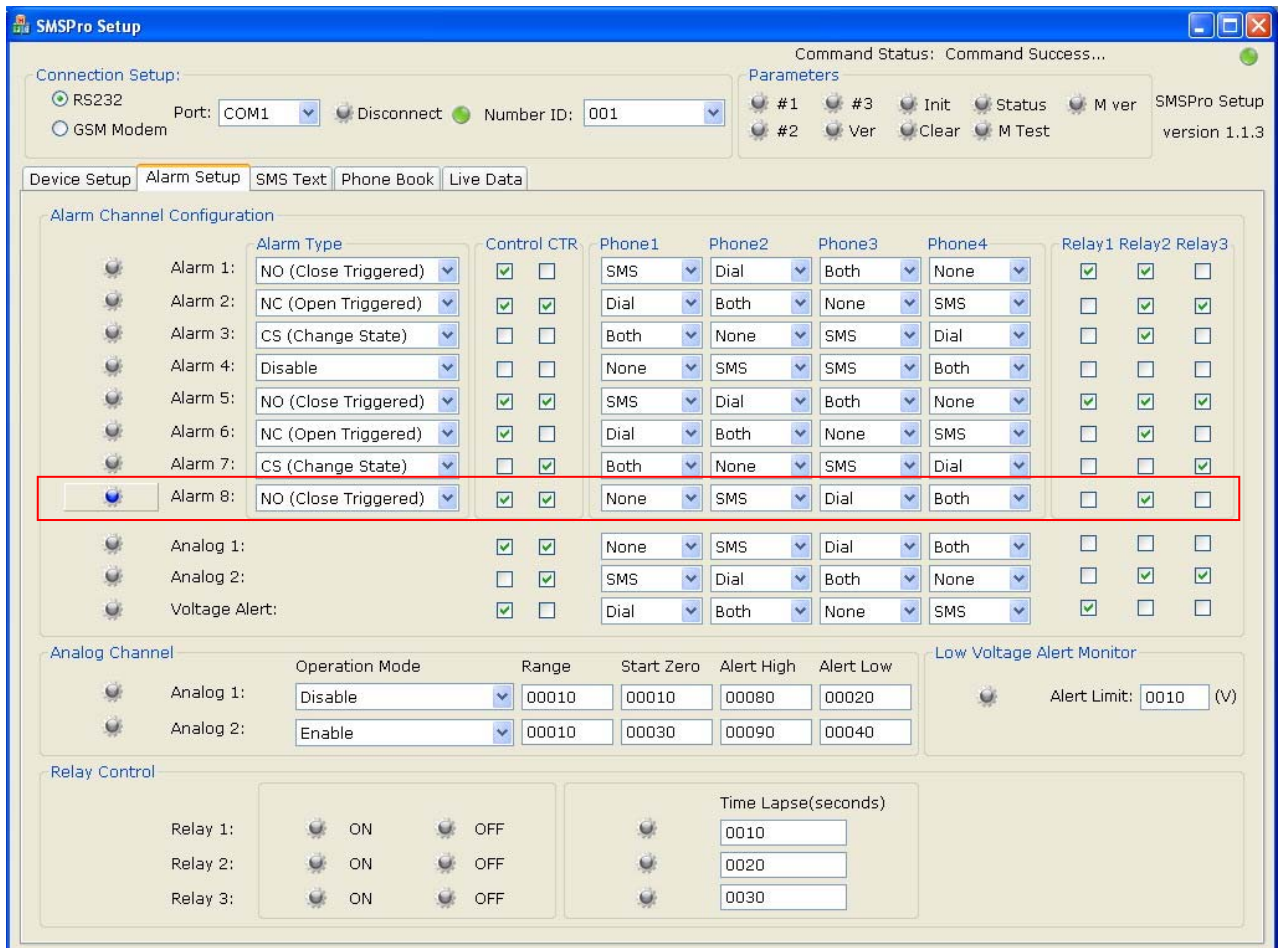b) Click [button] or [Set] button to activate the command.

Note:

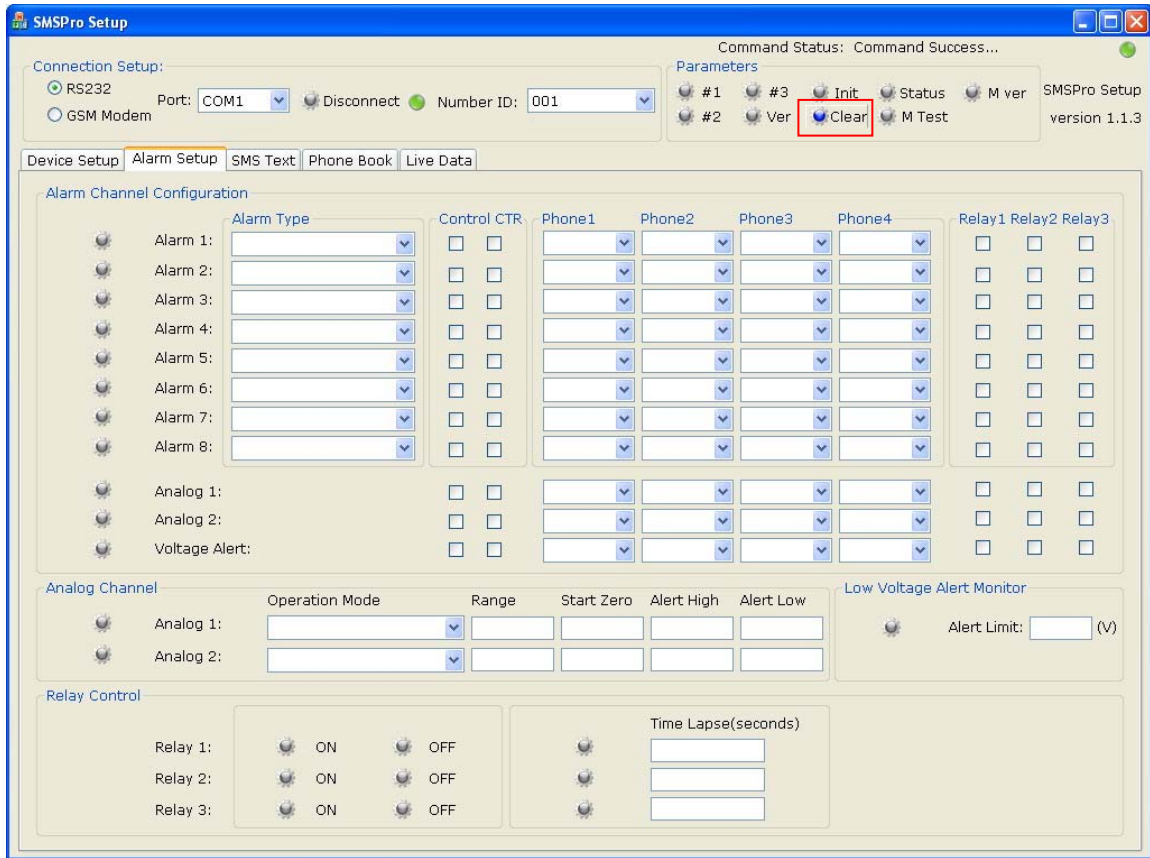- Command Status will display the progress of each command.

- Select the next parameter setup only when the current command is completed.

- Please refer the information and description of each command to the Operation Manual of SMS Alarm Messenger.

To verify the setting:

First, clear the displayed settings by click [Clear] button.

Then, click [#1], [#2] or [#3] button to read the parameter setting from the device.
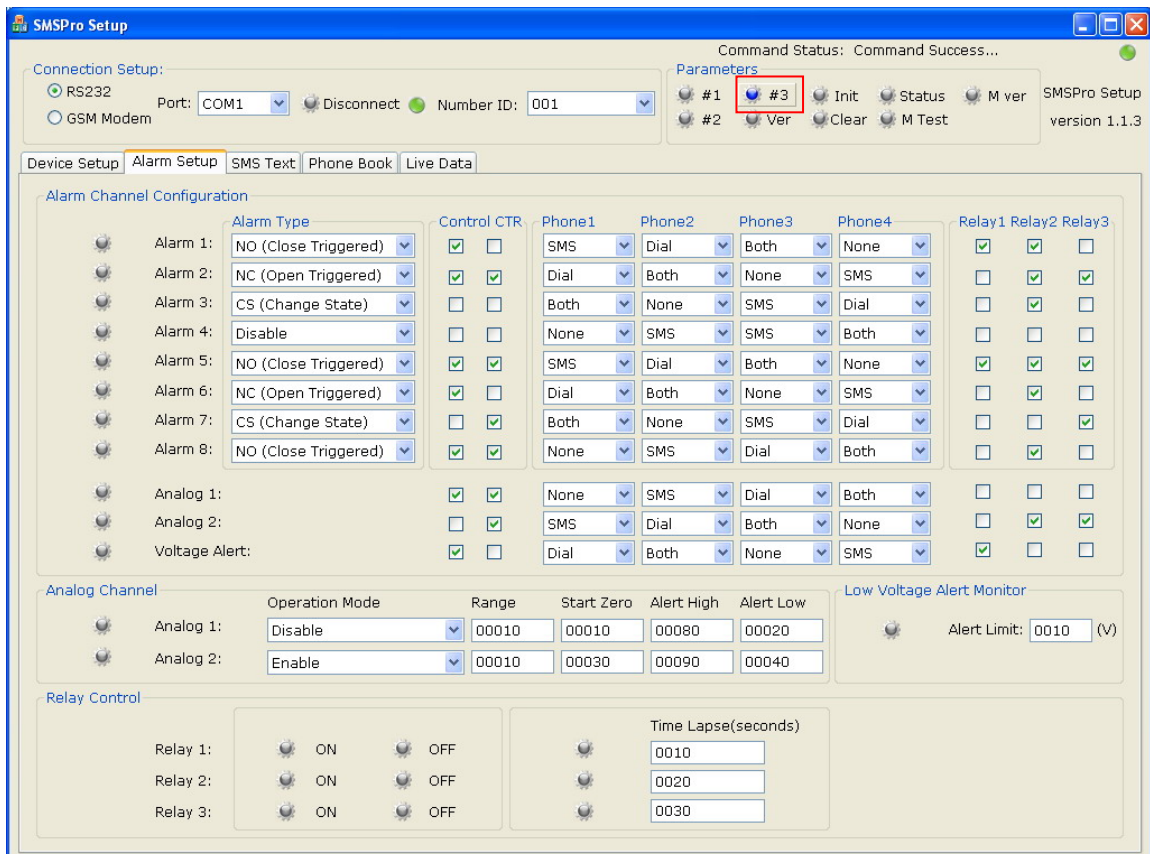
12. Temperature & Humidity Calibration [SMS Pro-SH, Pro-SX, GSMS-TH]

It is used to fine tune the accuracy of humidity sensor measurement.

A) AD1 "Analog 1" channel is connected to the humidity sensor.

- o There are many factors e.g. temperature affecting the output value of humidity sensor.
- o SMS Alarm Messenger provides the [Range] parameter for user calibration.
- o In most cases, the factory default setting is calibrated for general environmental application.
  - ▪ Start Zero: 00000
  - ▪ Range: 00120
- o Under any circumstances, range adjustment is recommended to be within 100~150.
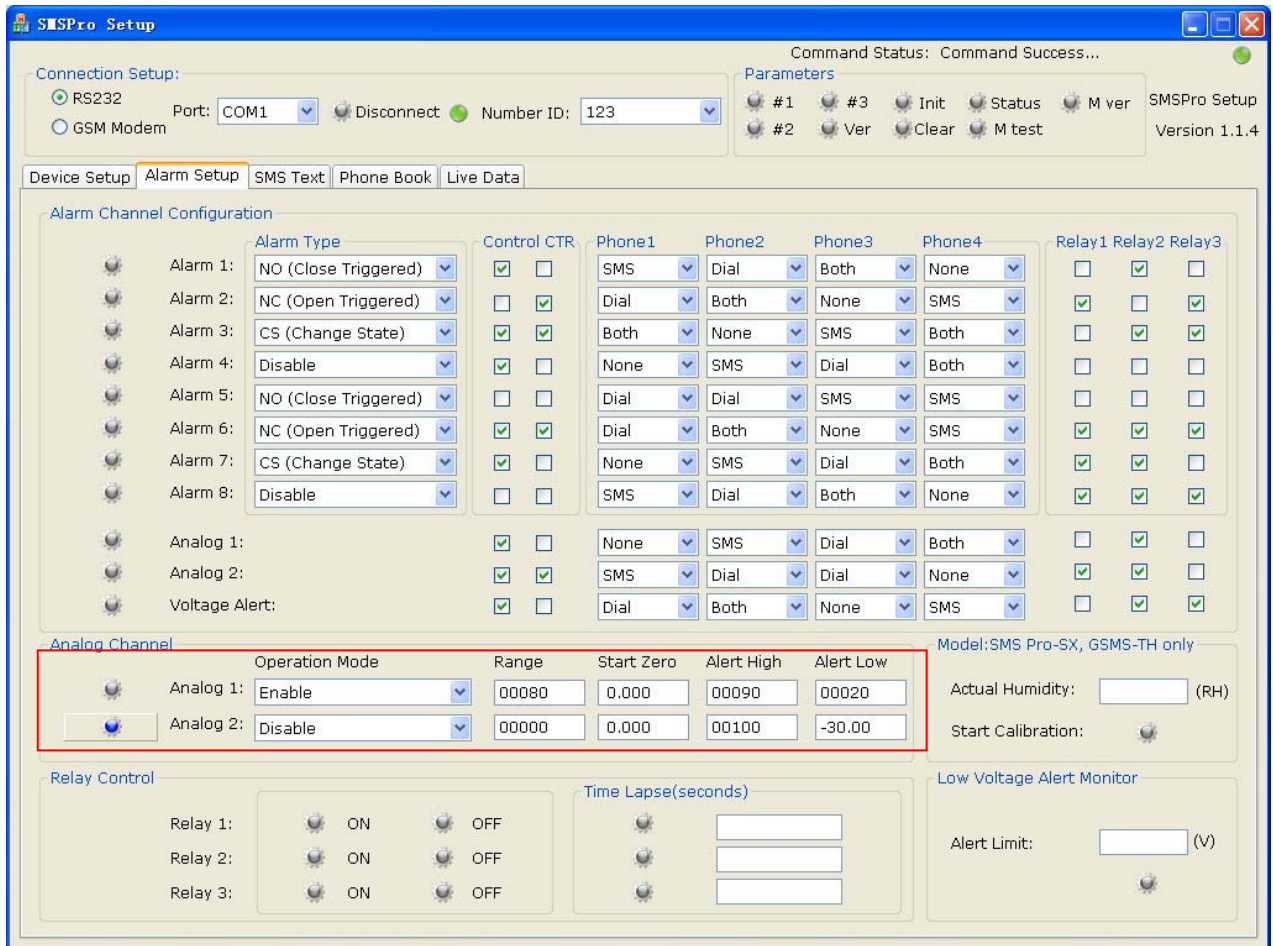
B) AD2 "Analog 2" channel is connected to the temperature sensor.

Since digital temperature sensor is used, there is no need of calibration.

Values of [Range] and [Start Zero] will be ignored.

"SMSPro_Setup" provides automatic calibration function for humidity measurement.

1) Prepare an accurate humidity measuring instrument

2) Put the instrument and SMS Alarm Messenger's humidity sensor in same place

3) Take the reading from the instrument

4) Enter the reading into the "Actual Humidity"

5) Click button [Start Calibration]

6) Calibration is done!

7) Keep the values of "Range" and "Start Zero", but only modify the "Alert High" and "Alert Low" for alarm level purpose

- In the above case, "Range" is configured to 116.9 by Auto Calibration.

- DO NOT change "Range" & "Start Zero"

- When humidity is higher than 90% or lower than 20%, alarm SMS will be sent.

13. SMS Text

It is used to setup the SMS text message when corresponding alarm is triggered.

Each alarm can be programmed to independent text message.

- 8 x alarm inputs

- 2 x analog inputs [Temperature & Humidity]
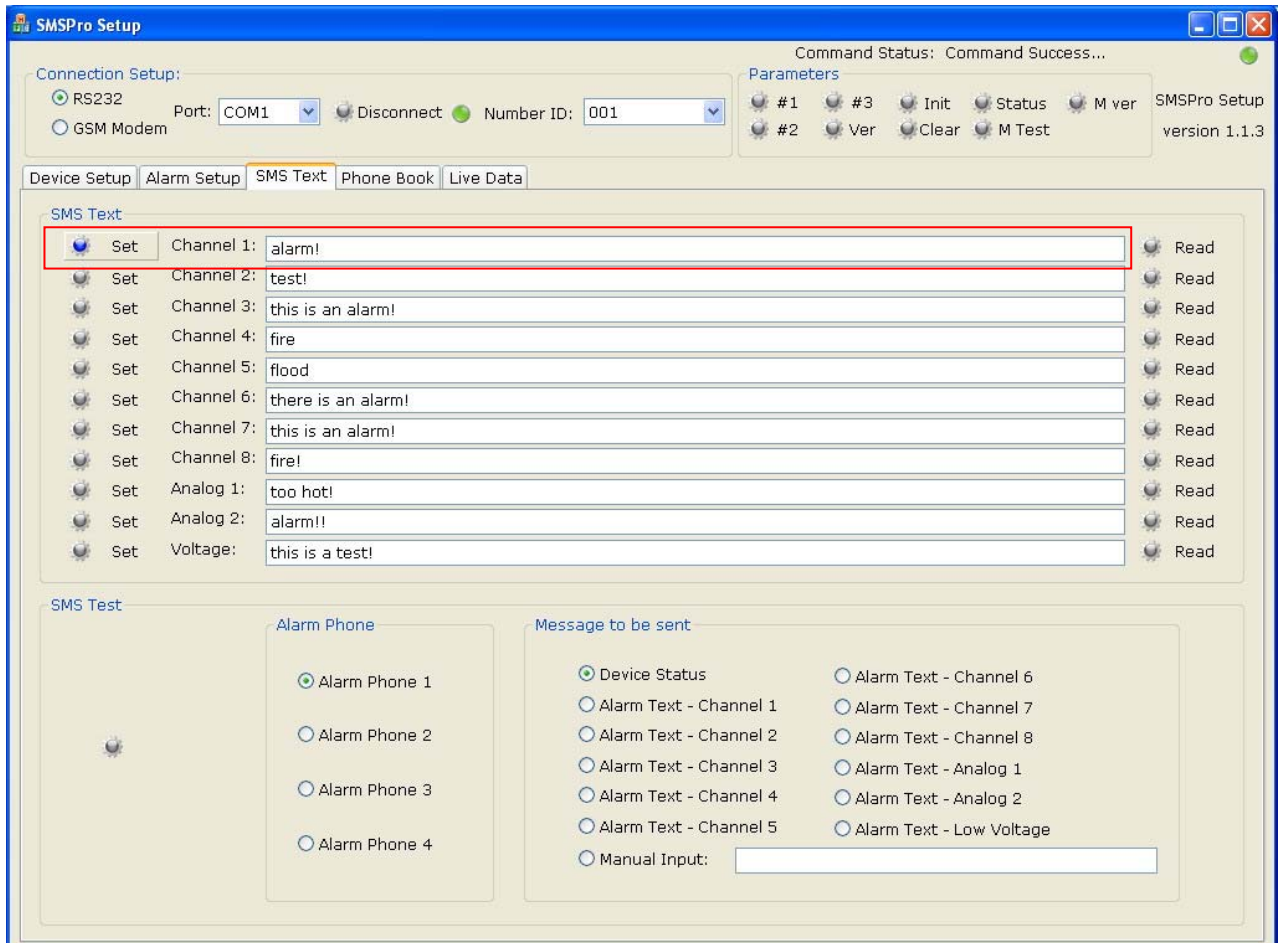
- Low Voltage Alert

A) SMS Text Setup

This is to setup the alarm SMS text which will be delivered to user mobile phone when alarm is triggered.

Each alarm can be configured with its own individual SMS text.
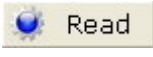

a) Selecting the channel

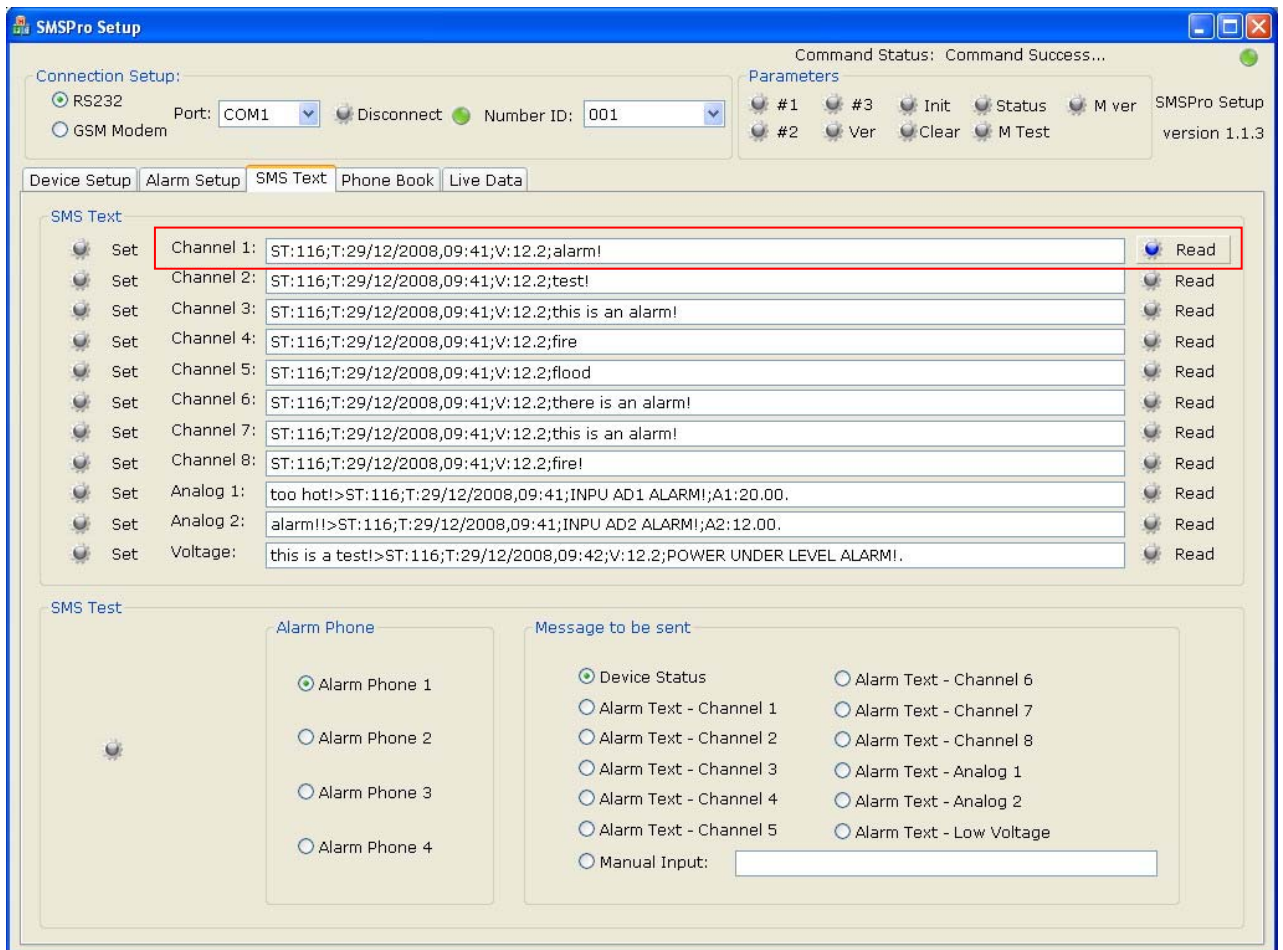b) Click ![Set] button to set the alarm SMS text into the device

B)   SMS Text Read

This is to read the configured SMS text from the device, in order to verify the setting.

a)   Selecting the channel

b)   Click ![Read] button to read the alarm SMS text set from the device

Analog 1:   SMS Text will be sent when humidity is higher or lower than preset value

Analog 2:   SMS Text will be sent when temperature is higher or lower than preset value

Notes:

- [Read] command will display the SMS Alarm Messenger - ID, date/time, voltage, and the alarm SMS text

- It is only necessary to input the alarm SMS text in the [Set] command, but no ID, date/time etc.

C)   SMS Text Testing

This is to instruct the device sending the configured SMS text to alarm phone number.

    a)   Selecting the alarm phone number, and alarm channel

    b)   Click [button] button to send the SMS alarm text of selected alarm channel to the selected

        alarm phone number

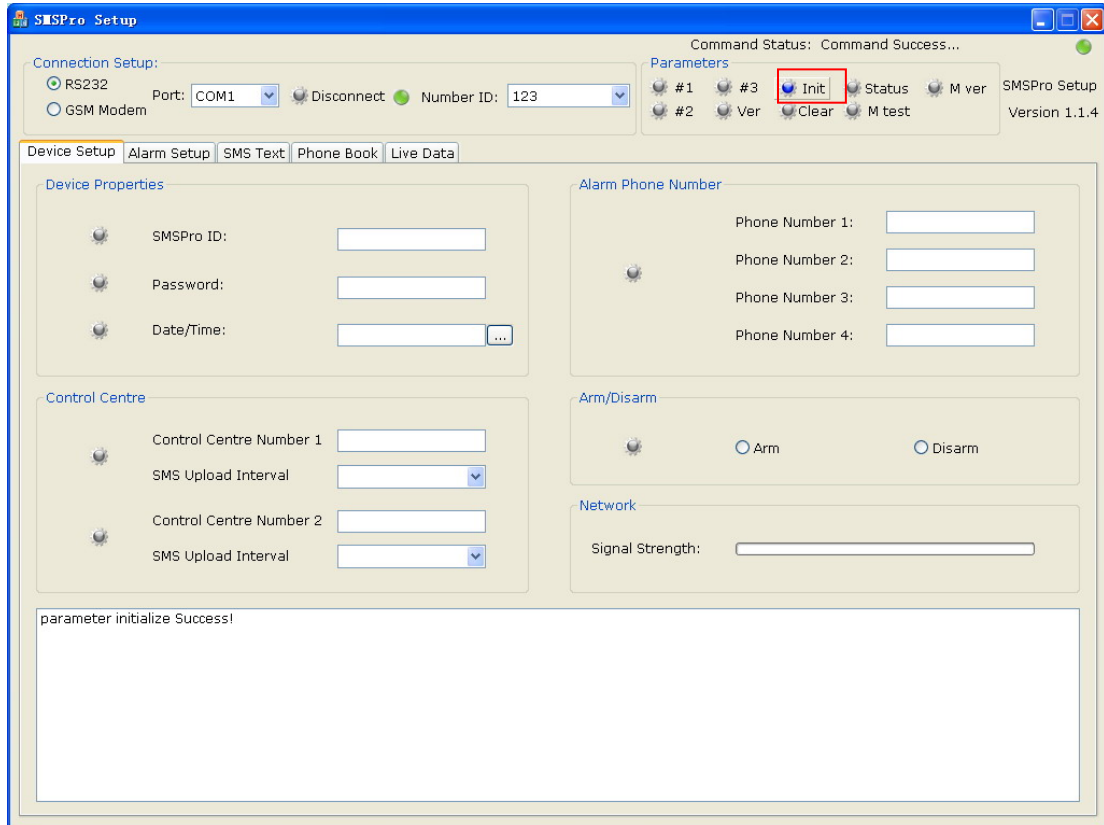   c)   "Manual Input" allows user to input any text message
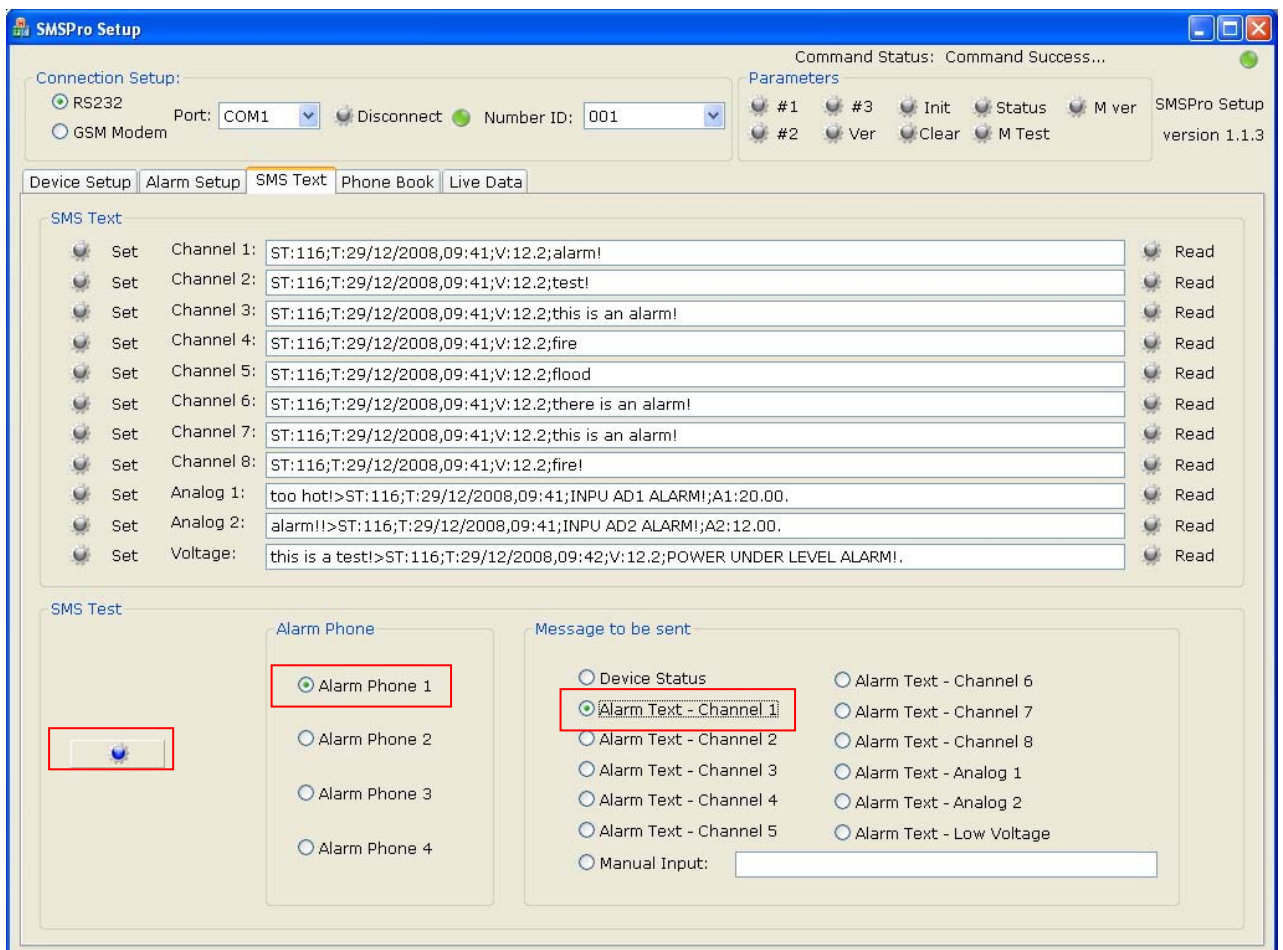
In the above example, the SMS text "alarm!" will be sent to alarm phone 1 when the [button] button is clicked.

Note: this is for testing purpose

14. Device Reset

It is used to reset all the parameters and password into default setting. Password in phone book will also be reset to default setting.

a) Click [Init] button

b) Click [#1] button to check the default setting after reset.