Temperature & Humidity

SMS Alert Controller

Version 7

Setup Software Guide

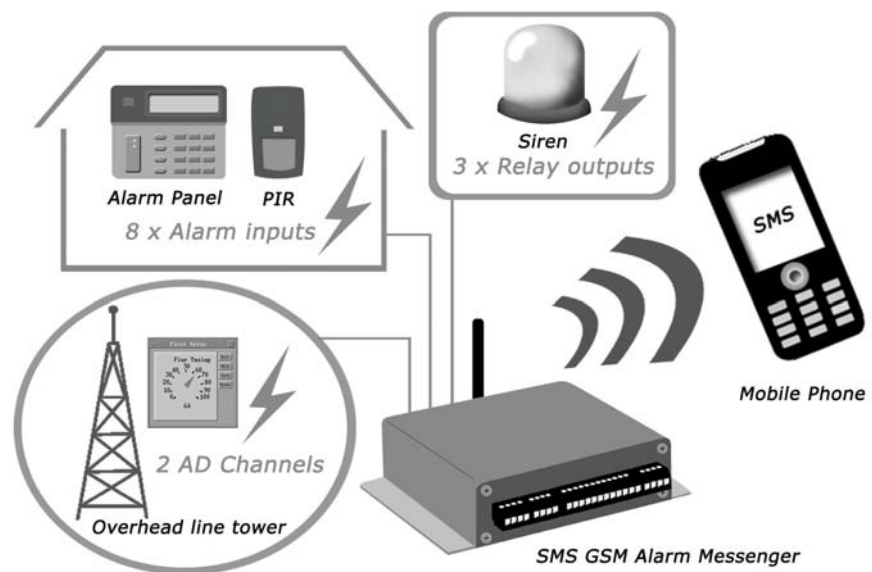[Windows XP/Vista/7]

GSMS-THR / GSMS-THP

Revision 110507 [Version 2.2.14A]

SMS Alarm Messenger

Version 7

Setup Software Guide

[Windows XP/Vista/7]

SMS Pro series

Revision 110507 [Version 2.2.14A]

Contents

ⓘ This manual is valid to GSMS-THR, GSMS-THP and SMS Pro series.

1. How to setup SMS Alert Controller?

There are three different ways of setting up the SMS Alert Controller.

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

a. SMS by Mobile Phone:

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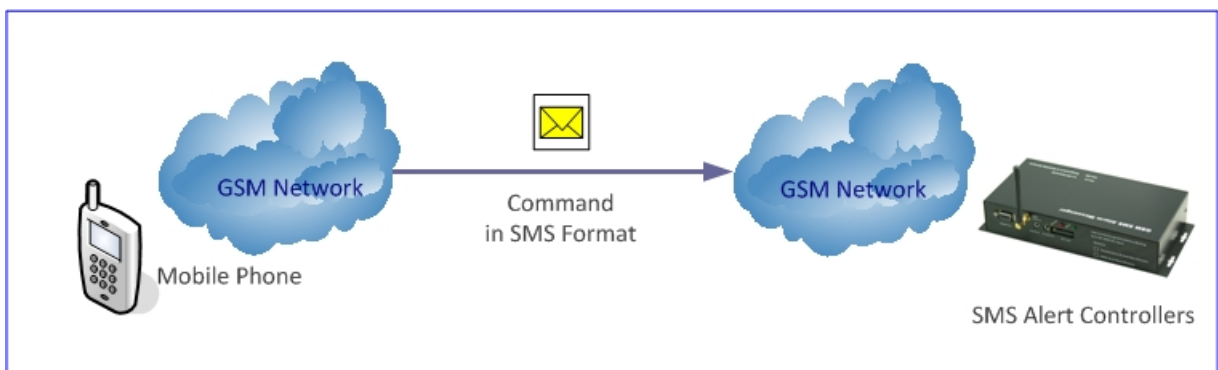

b. GSM Modem by PC:

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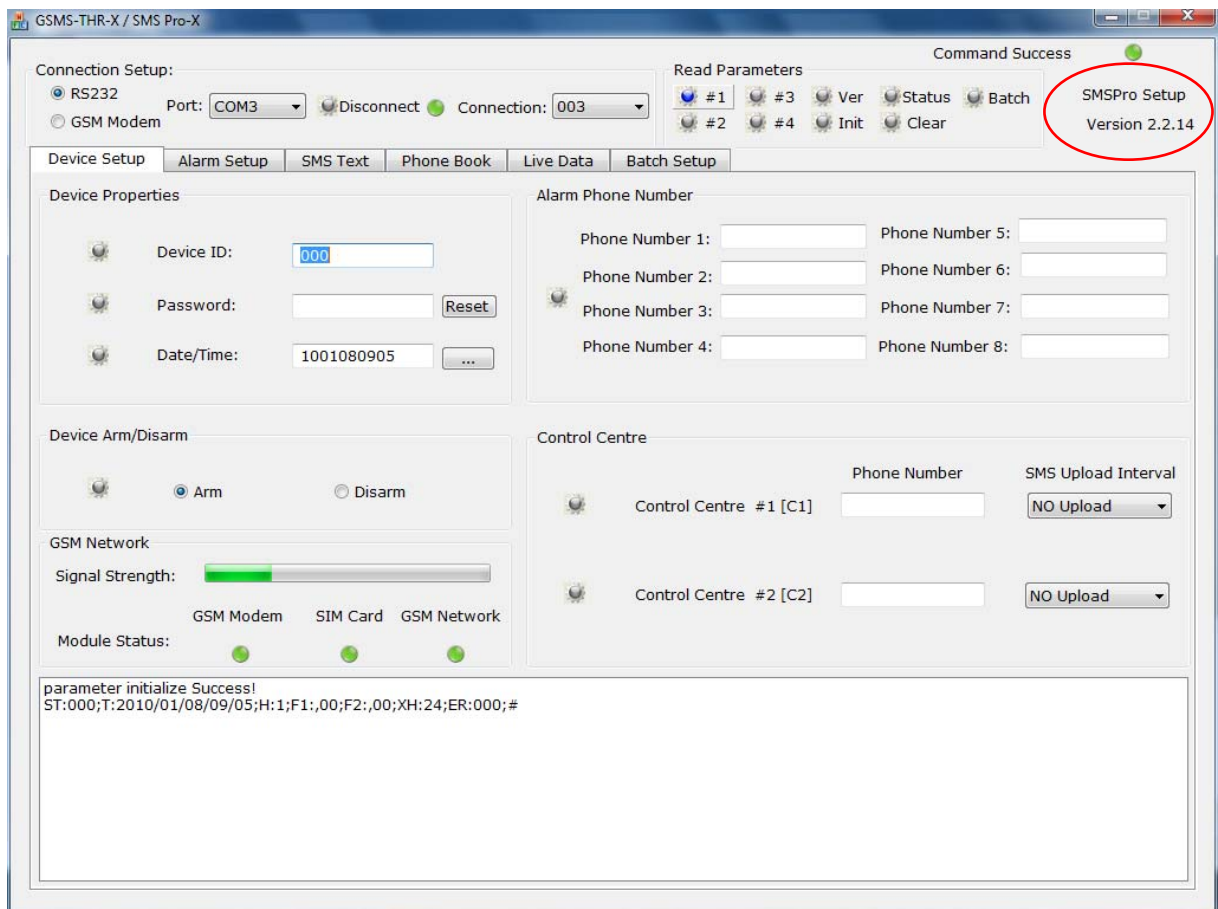- It can be selected on the main screen of "SMS Pro Setup" software as below.
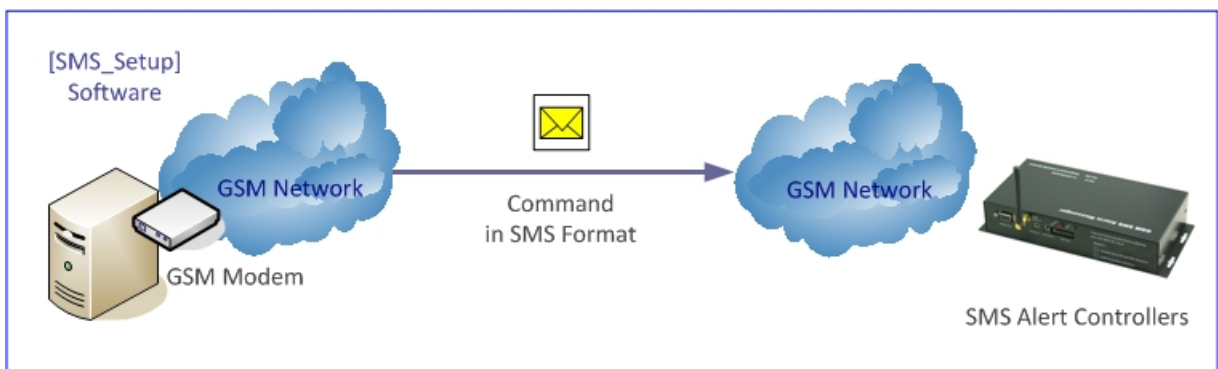
c.   RS232 Port by PC:

- "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.
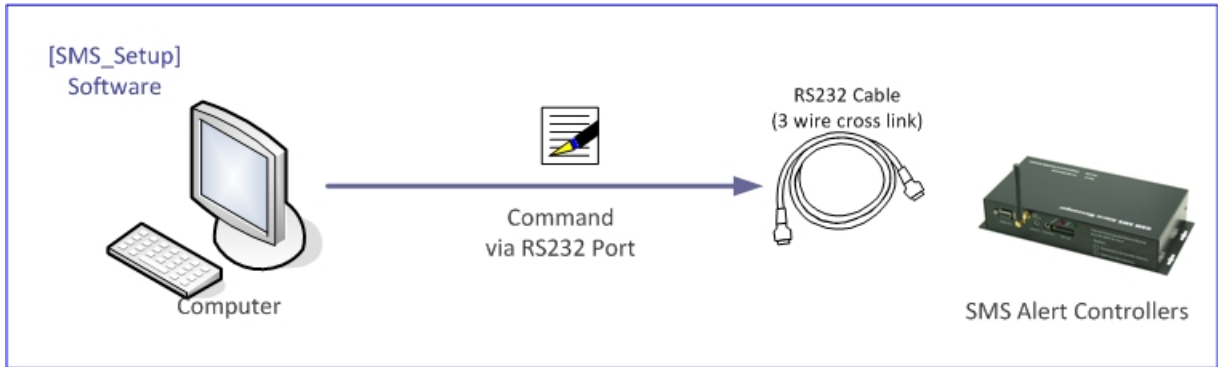
[SMS Pro_Setup Software] screen shot
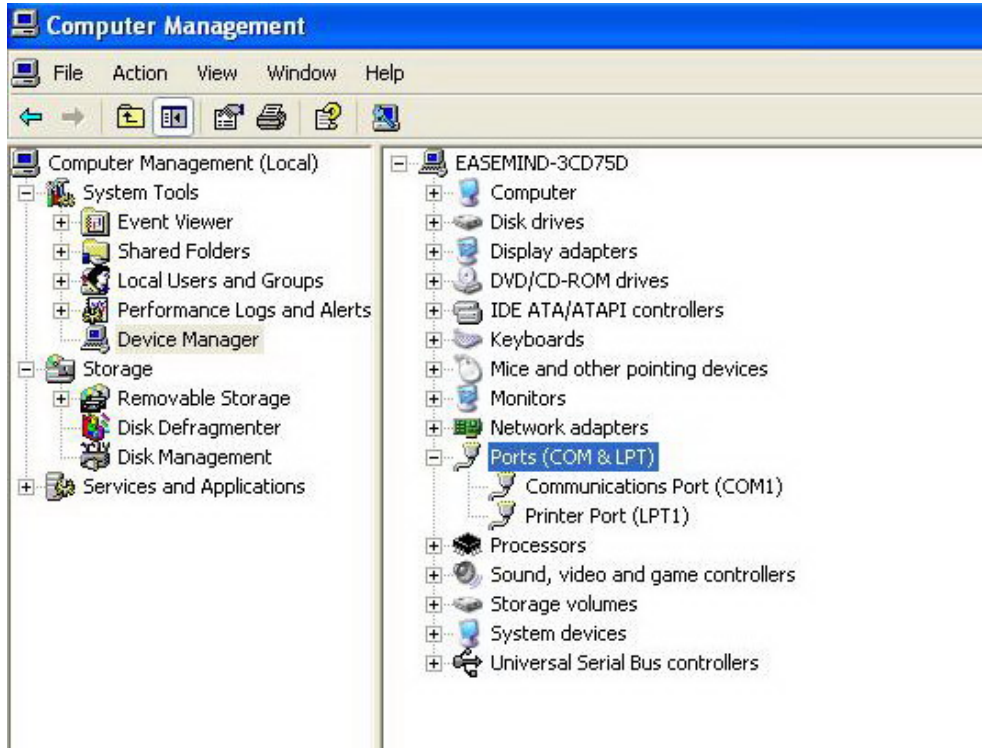
2. Connection Port & Cable

Connection Port

- please check which COM port is connected to the GSM Modem or SMS Alert Controller physically

Connection Cable

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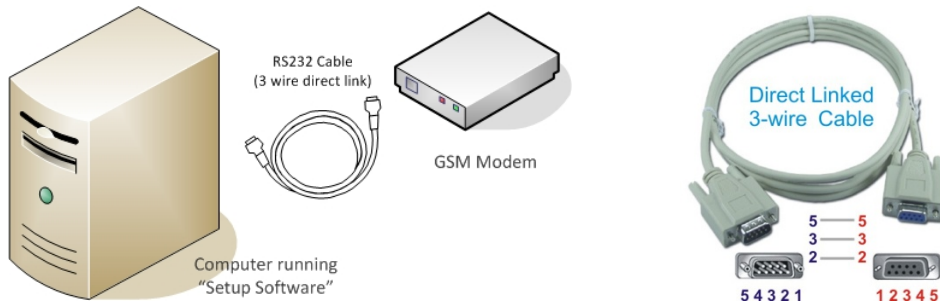
- Direct RS232 Connection: "cross link RS232 cable" should be used

3. Install the "SMSPro_Setup" software

Run "SMSPro_Setup", and follow the instructions
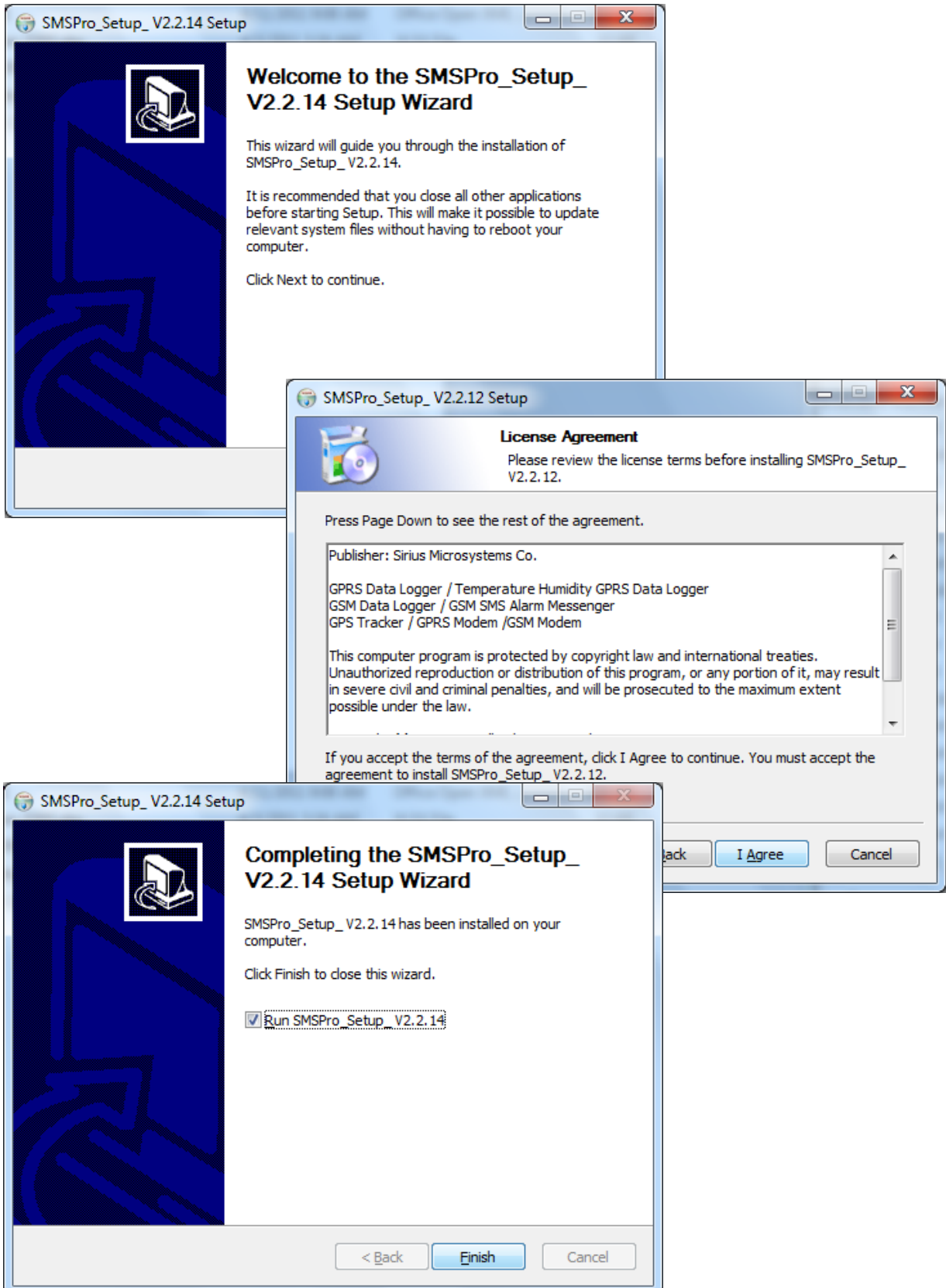
4. Select Model

Models

- SMS Basic / SMS Pro-X / SMS Pro-SX / SMS Pro-ST are standard models

- Some other models can be referred to models above in selection
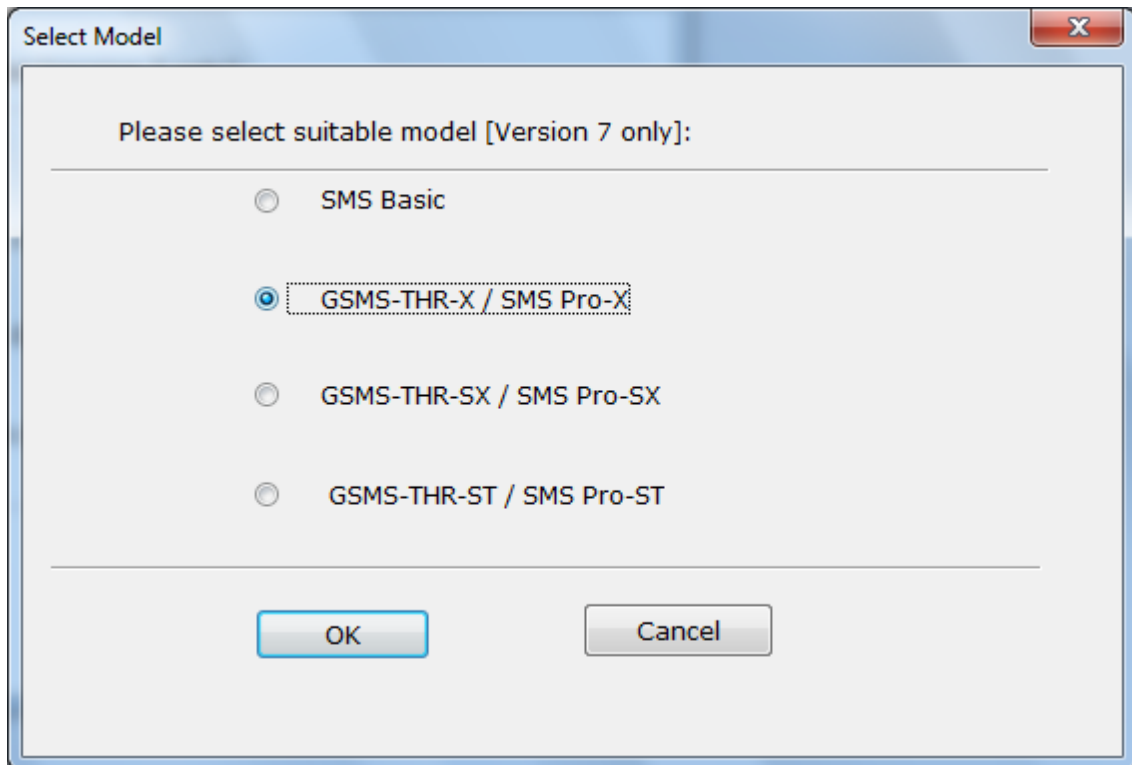
5. Connection Type

Connection

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

- Green LED indicates the successful connection
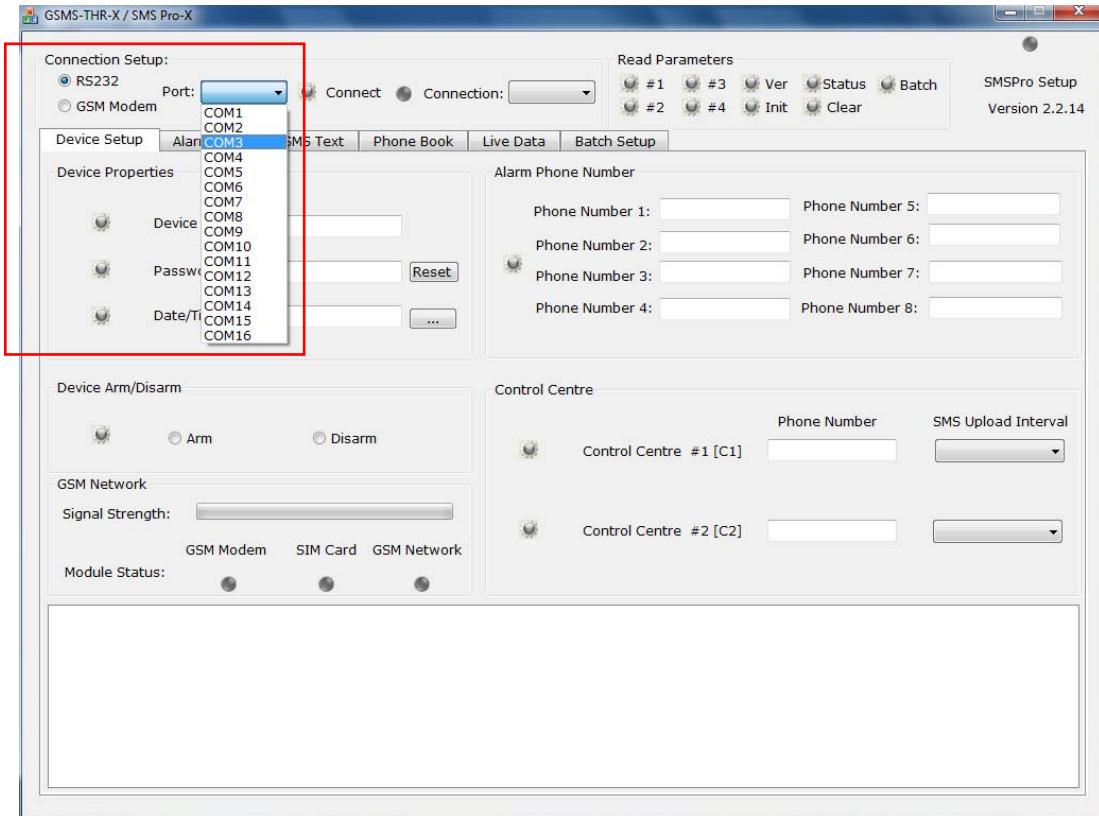
- For GSM Modem, please check which COM port is connected to the modem physically.
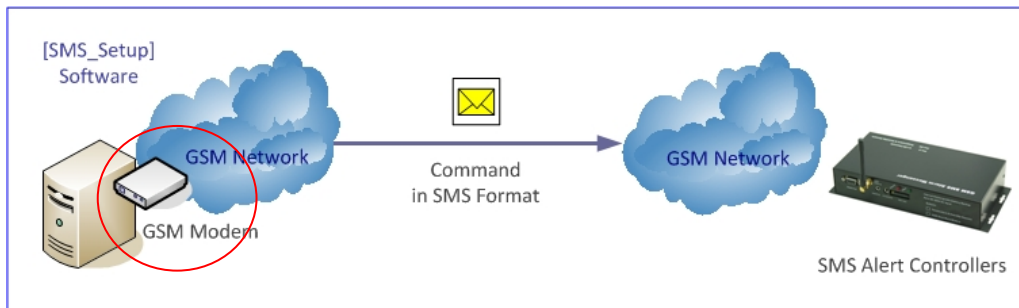
- For RS232, please check which COM port is connected to the SMS Alert Controller physically.
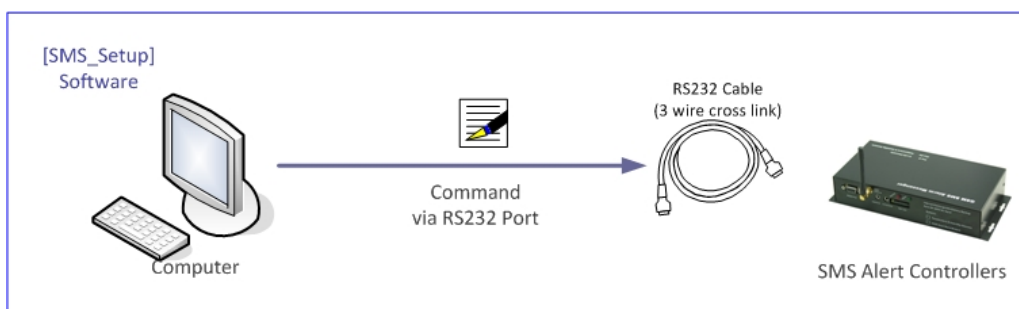
6. Quick Start Up

- Connect the RS232 Cable to PC COM port, and run the Setup Software

- Select Model, [RS232 - Connection Type] and [COM Port]

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

- Click [Phone Book], and add a new device and connection in [Phone Book] tab
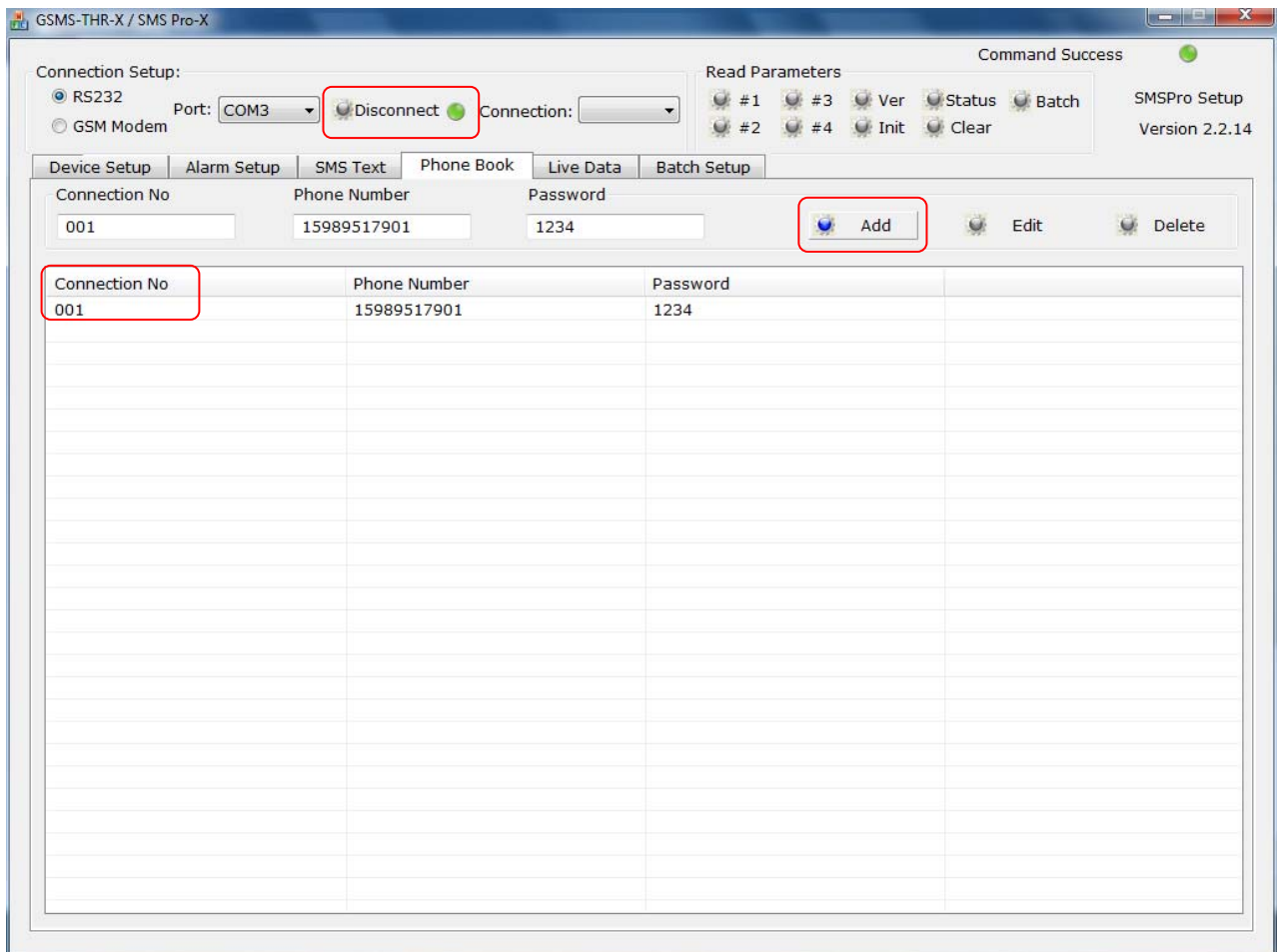
- In [Connection] pull down menu , select the [Connection No]

- After Connection No. is selected, configuration can be started.
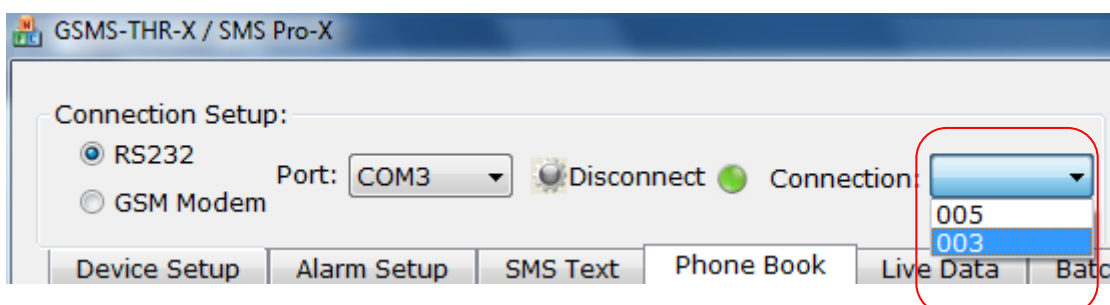
7. Phone Book

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

- Add the properties of a new SMS Alert Controller to the phone book in Setup Mode

- Factory Default of SMS Alert Controller properties

    Connection No.:   001

    Phone Number: phone number of SIM Card installed in the device

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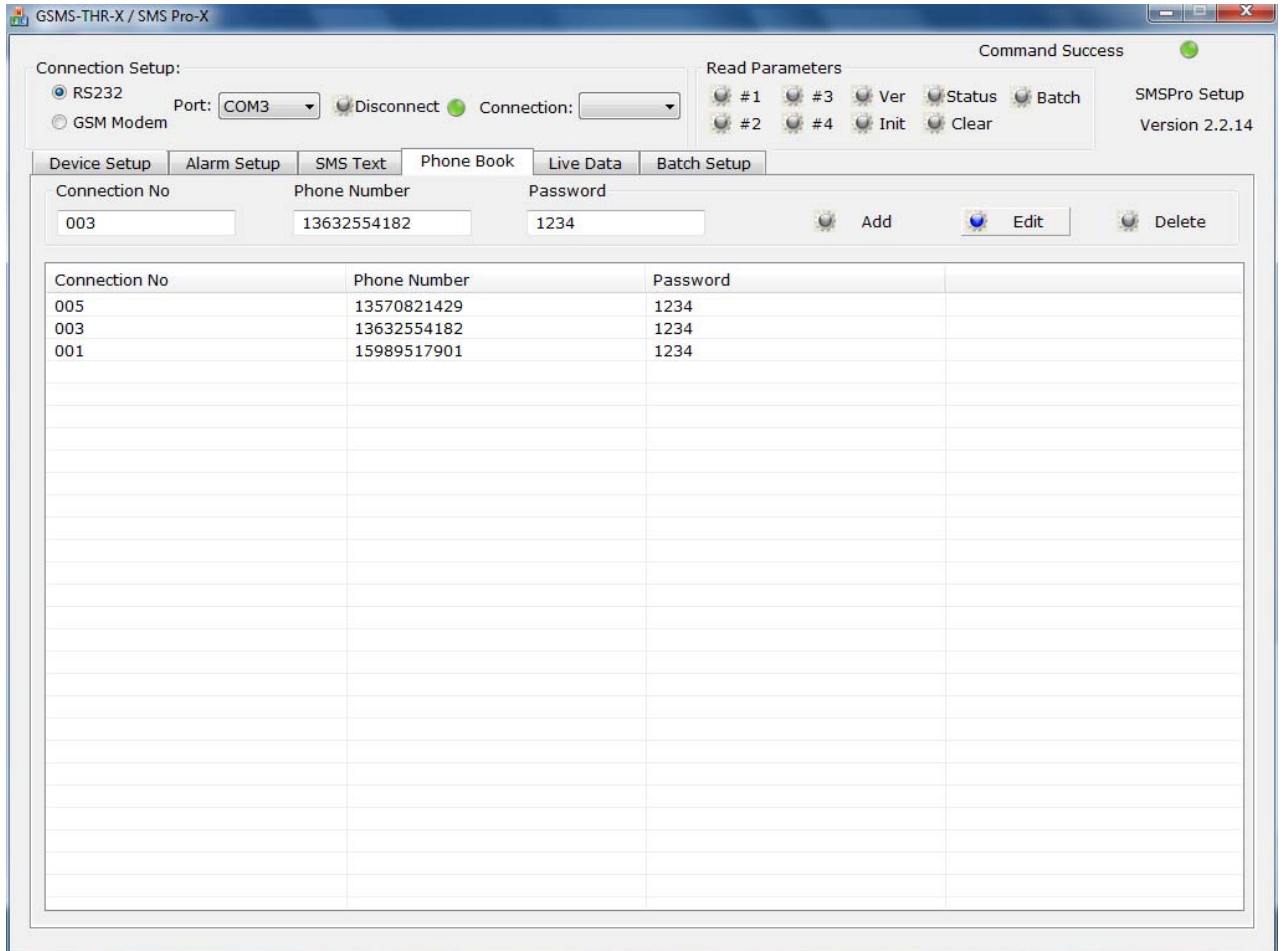
- "Password" of SMS Alert Controller in phonebook must match its internal passwords.

- Once the properties (connection no. & password) are modified in [Device Setup] page, the database of Phone Book will be automatically updated.

- [Reset] button is to resume the factory default password.

8. Reading Internal Parameters

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

- Current configuration
- Live Data
- SMS text message associated with each alarm

Detail of each parameter# check can be found on operation manual SMS Alert Controller Manual.

Click the buttons for corresponding parameters:
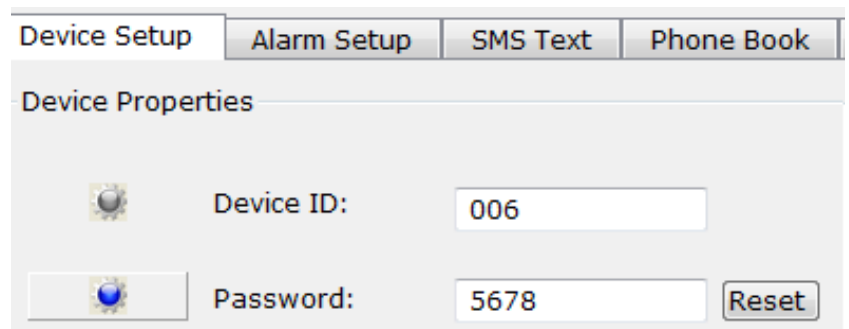
Button	Command
#1, #2, #3, #4	Check Parameter#1, #2, #3, #4
Status	SMS Alarm Messenger Live Data
Ver	Firmware Version Check
#Init	Device Reset
Clear	Clear the information displayed

a) Click "Ver" button, the firmware version of device will be displayed as below.
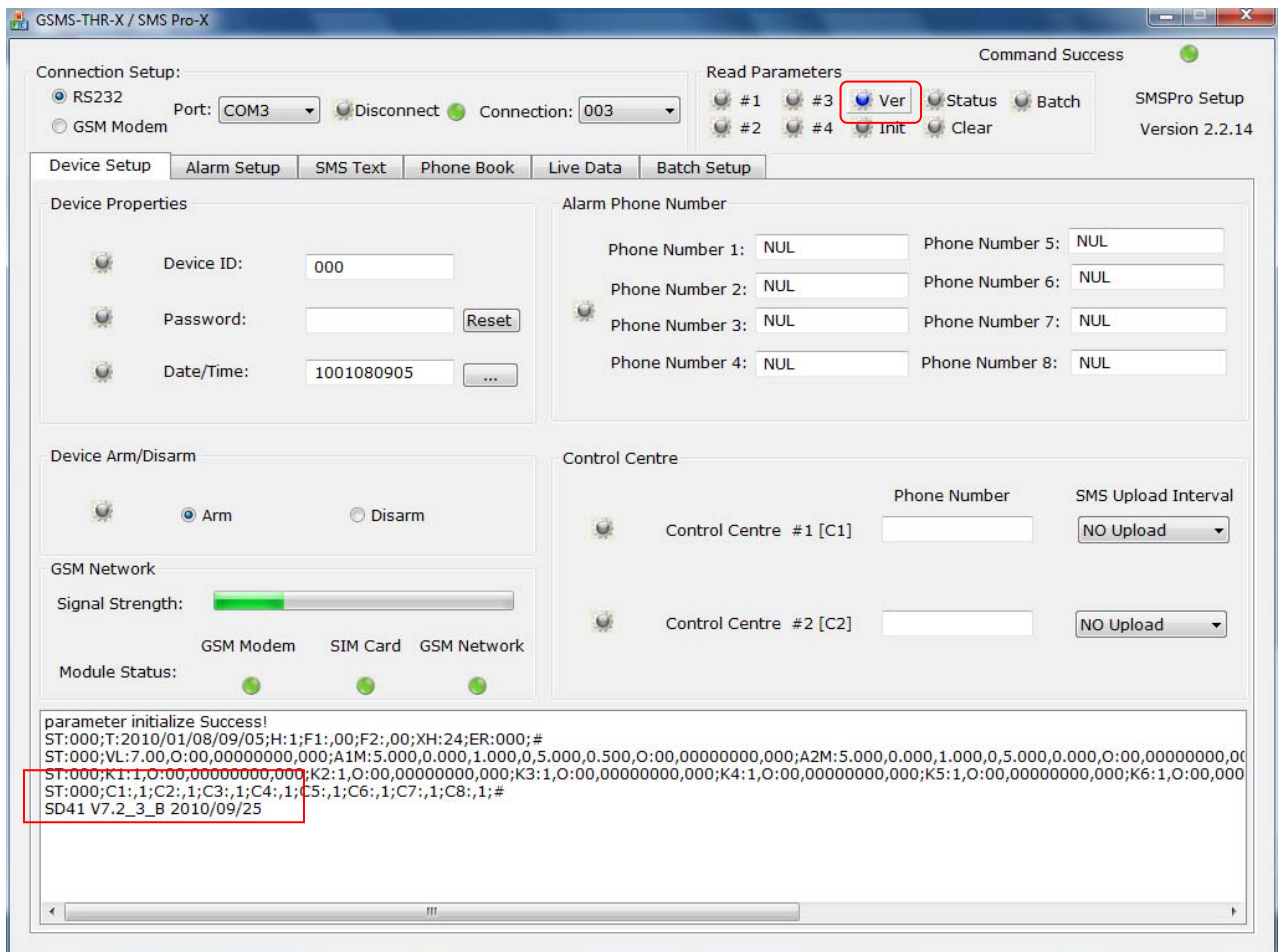
b) Click "#1" button, the Central Setting and GSM Signal Strength will be displayed as below.
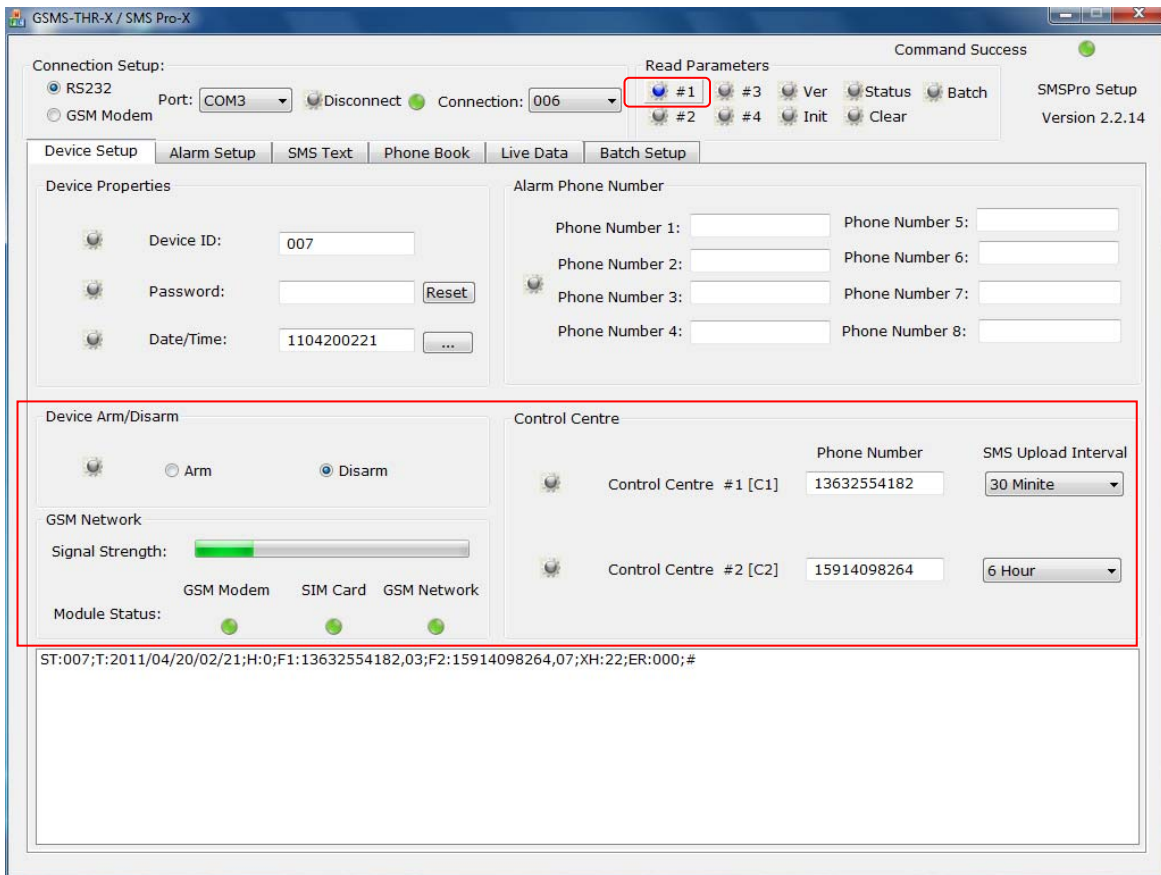
c) Click "#2" button, the Analog Alarm Setting will be displayed as below.
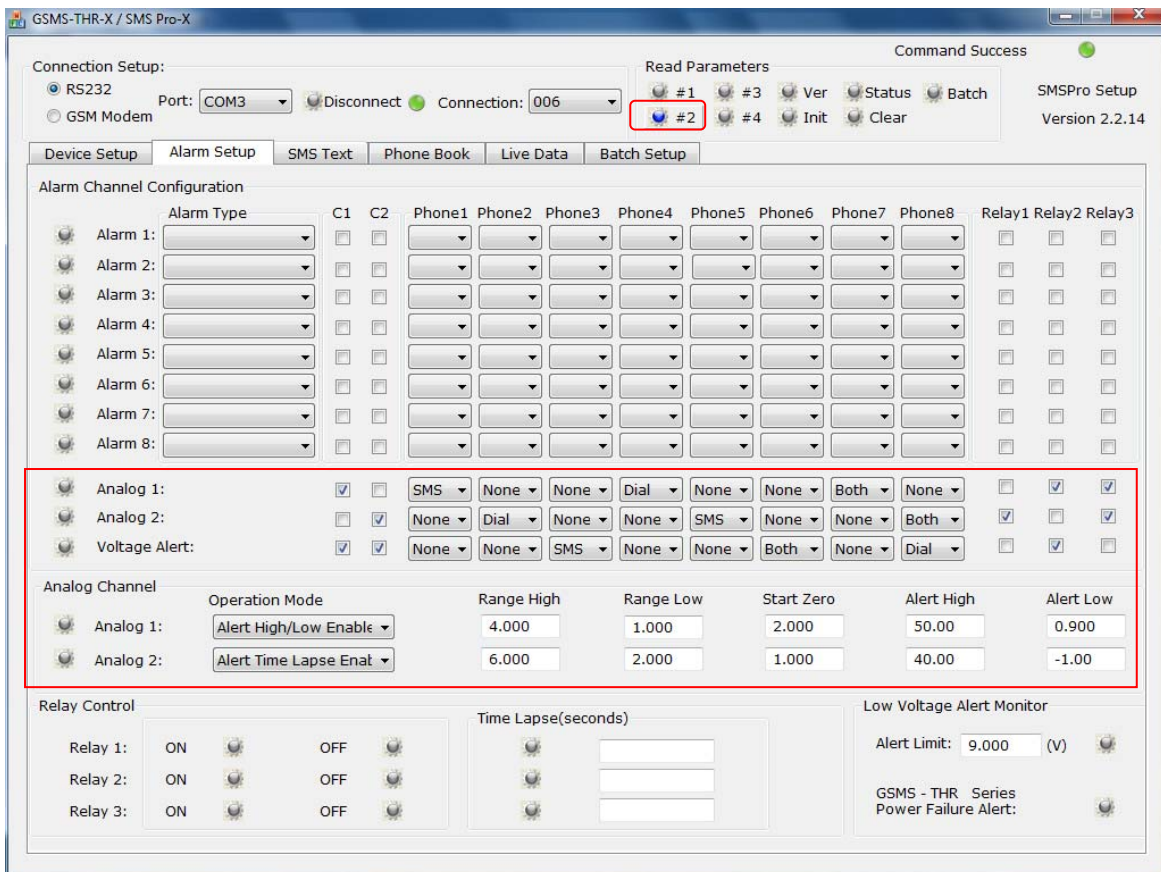
d) Click "#3" button, the Digital Alarm Setting will be displayed as below.
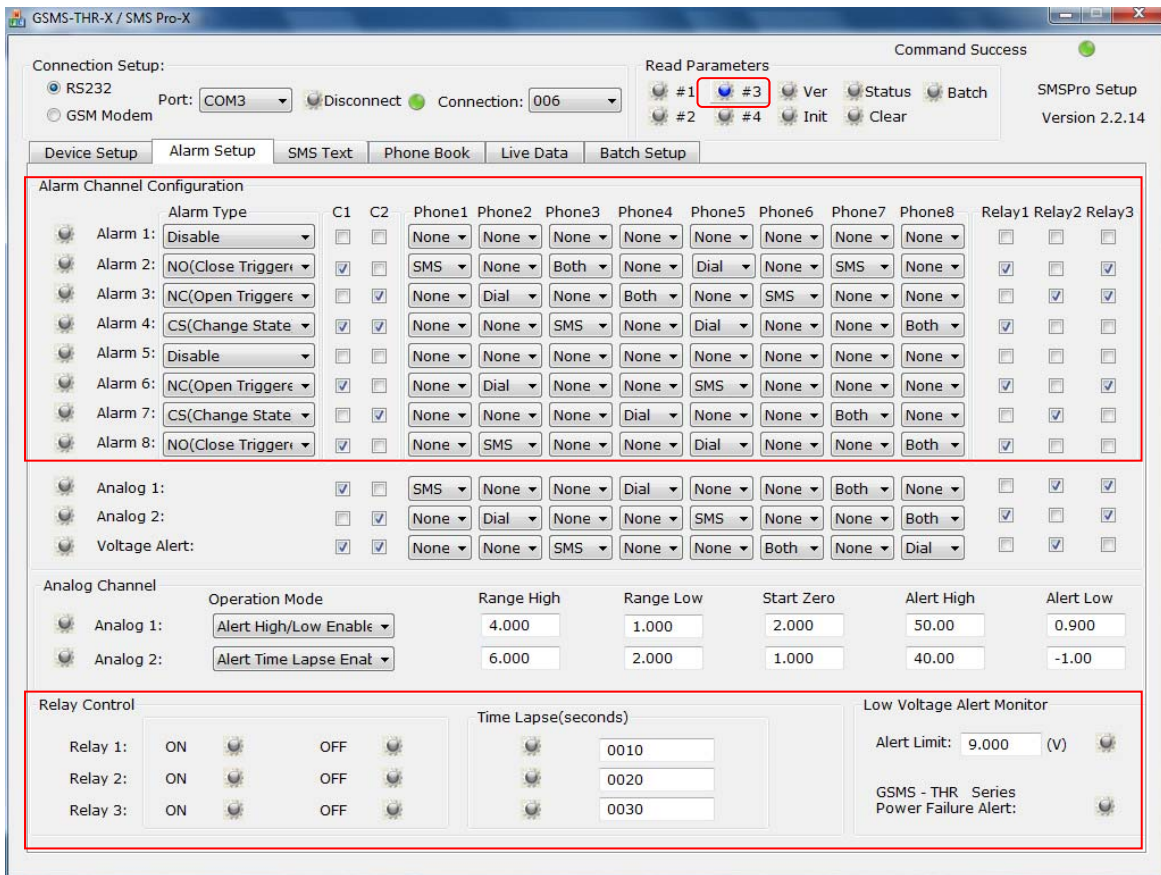
e) Click "#4" button, the Device Properties Setting will be displayed as below.
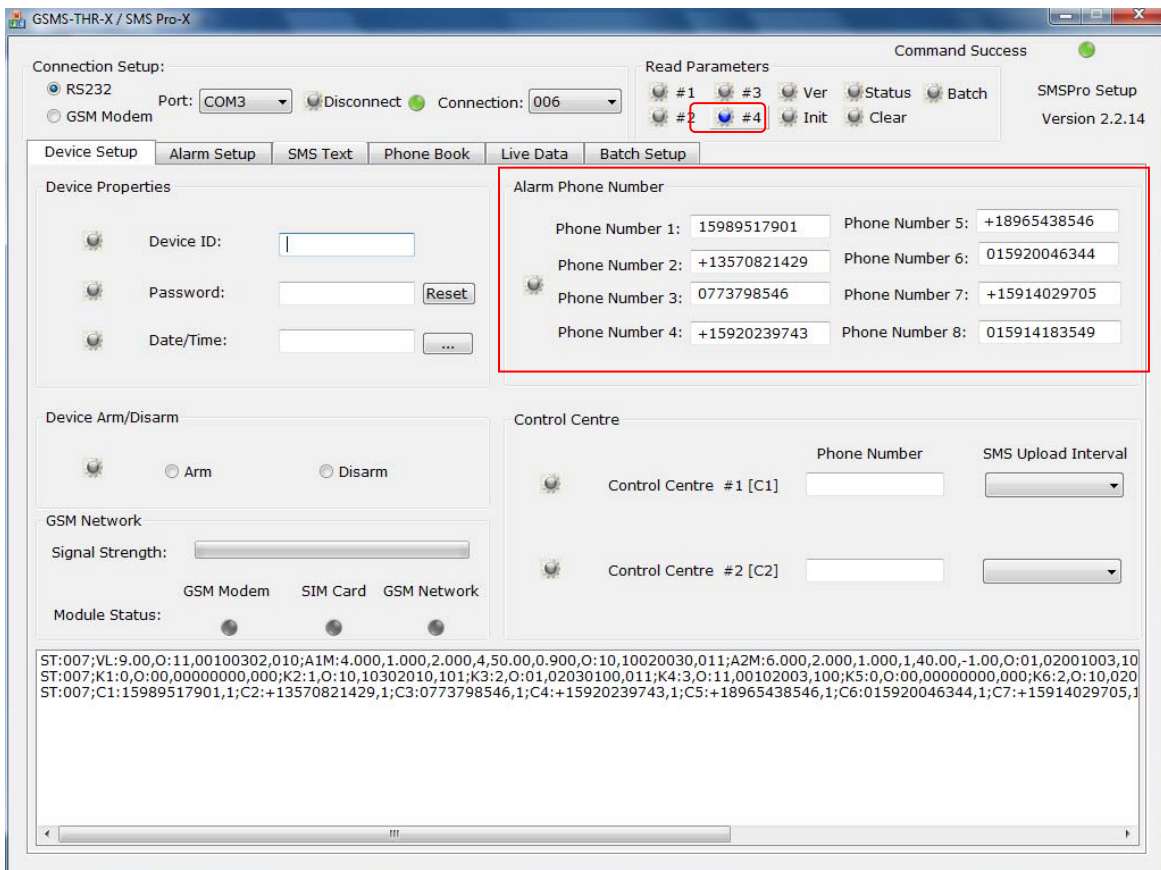
9. Live Data

Click "Status" button, the current status of alarm input and analog input channels will be displayed as below on [Live Data] tab.
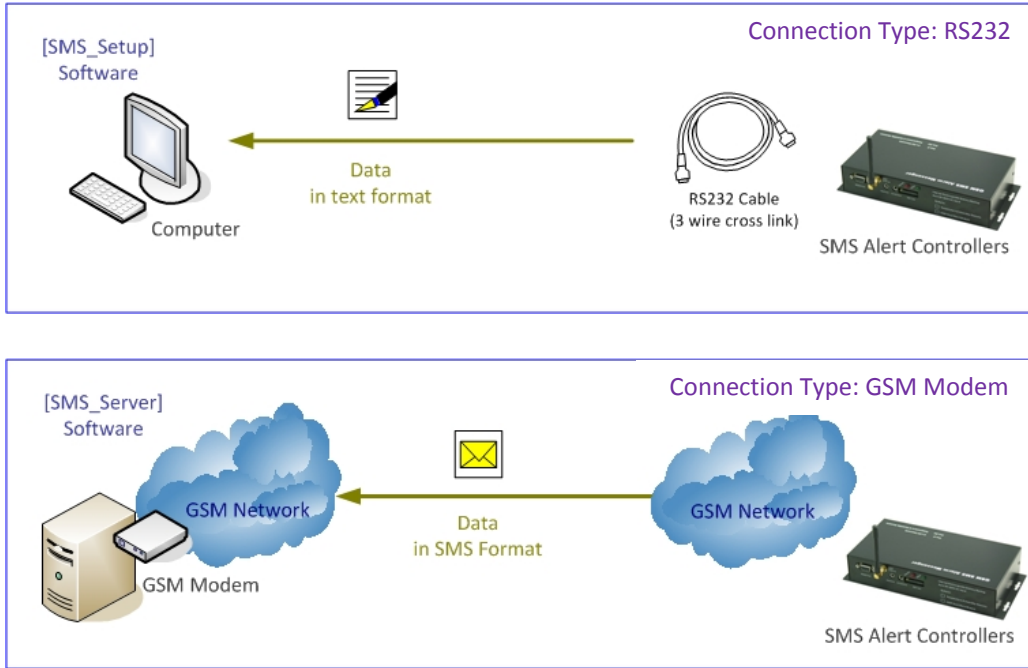
This is the same command as "PWD:1234,STATUS%" sent by mobile phone.

- The software will not automatically download the live data from the SMS Alert Controller. 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 Alert Controller, and maintain the data records in server database.

- Please refer to the "SMSPro_Server" manual for the operation detail.

Click "Clear" button, all parameters and data displayed will be clear as below.
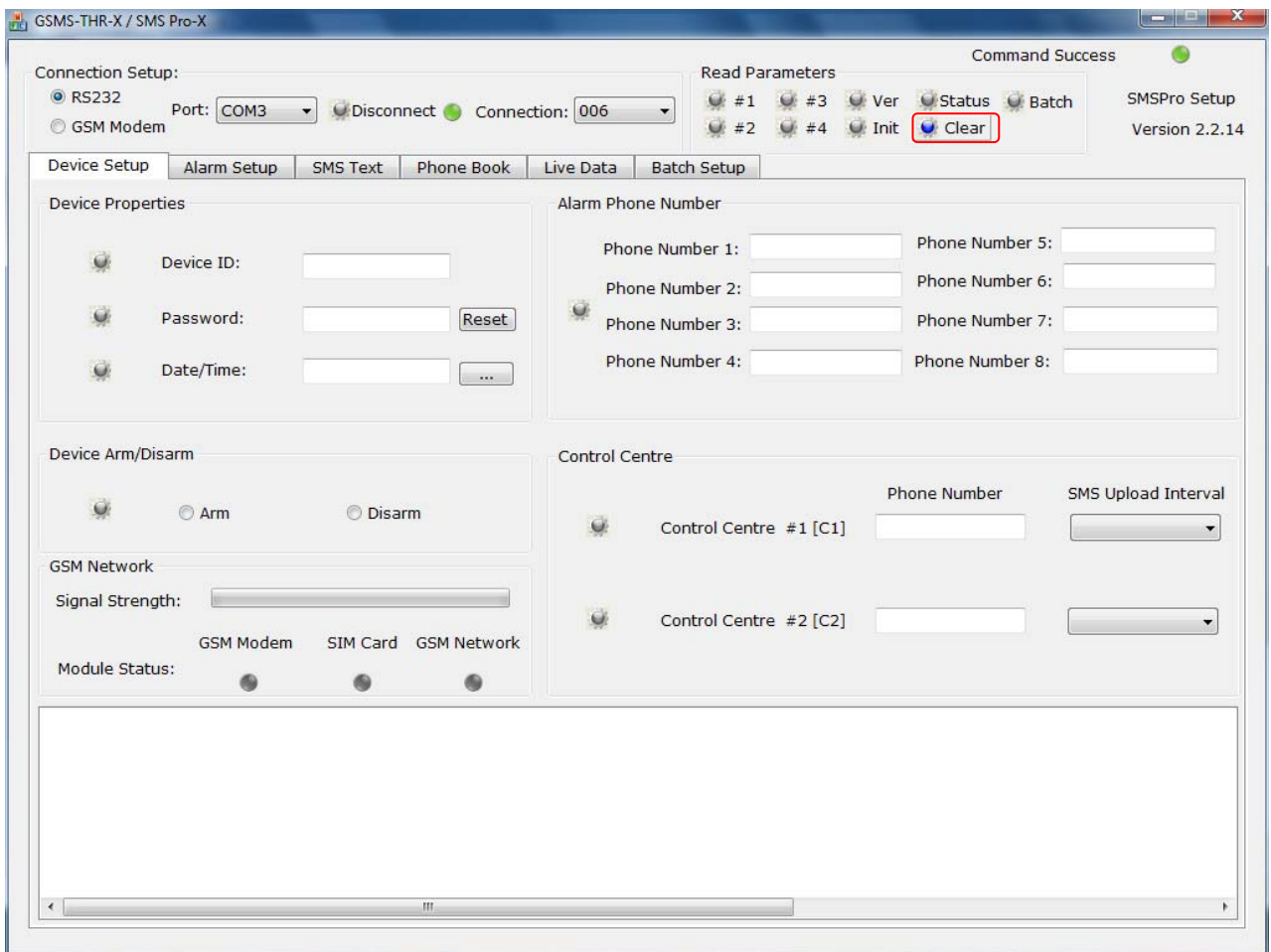
10. GSM Network

Before installing the device on site, proper GSM network connection should be ensured.

Click Read Parameters [#1] button
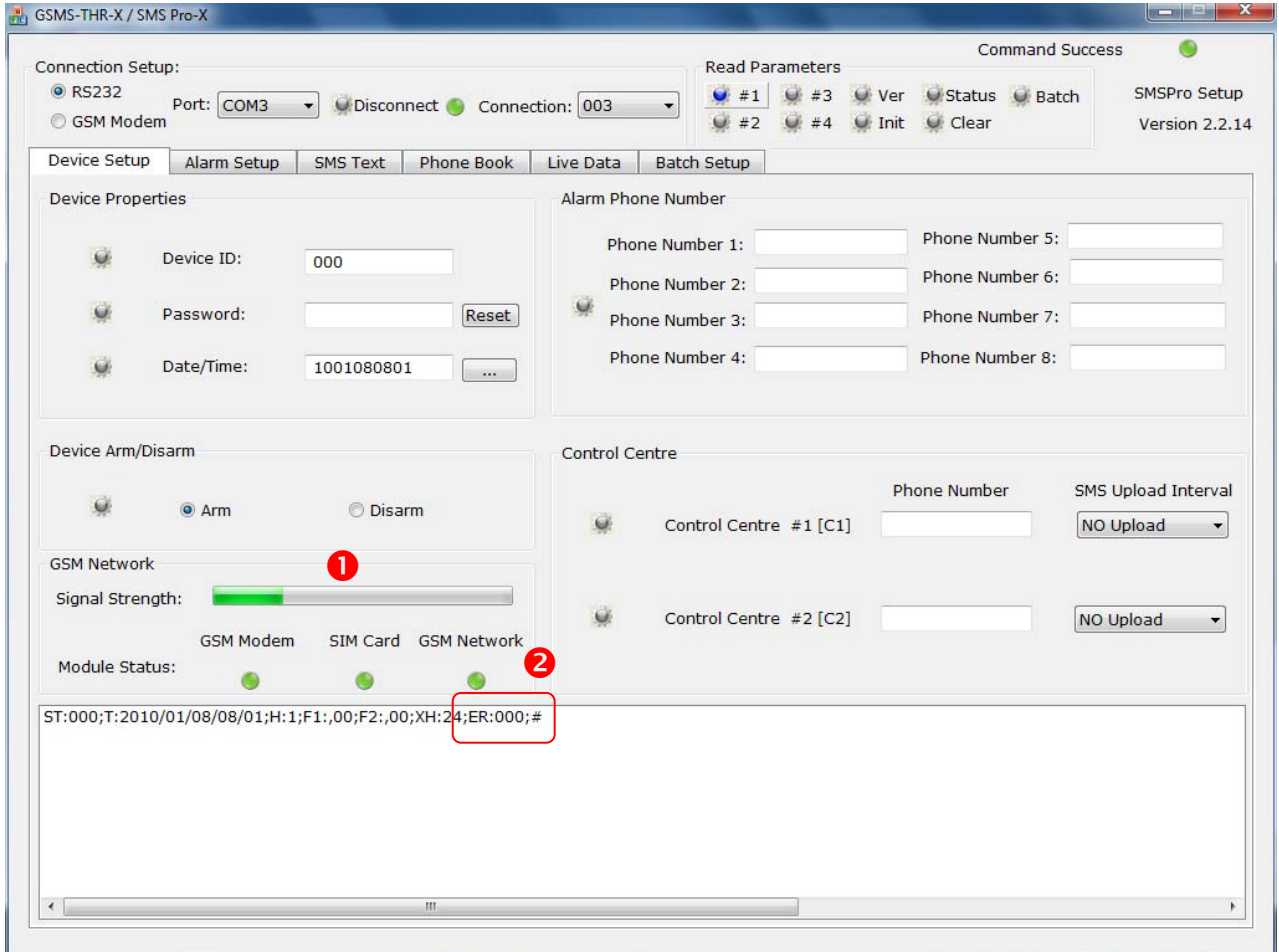
1   Signal Strength is shown to check the GSM network coverage.

2   Three LED indicates the status of GSM Module

ER: x y z
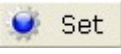
	Description	Normal	Defect	
x	GSM Module Status	0	1	[GSM module damaged]
y	SIM Card	0	1	[SIM card not inserted]
				[Service unpaid, or not activated]
z	GSM Network Connection	0	1	[Wrong GSM band selection]

ⓘ ER:000   means proper network connection for normal operation

11. Device Setup

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

    a)   Selecting the option or modifying the parameters

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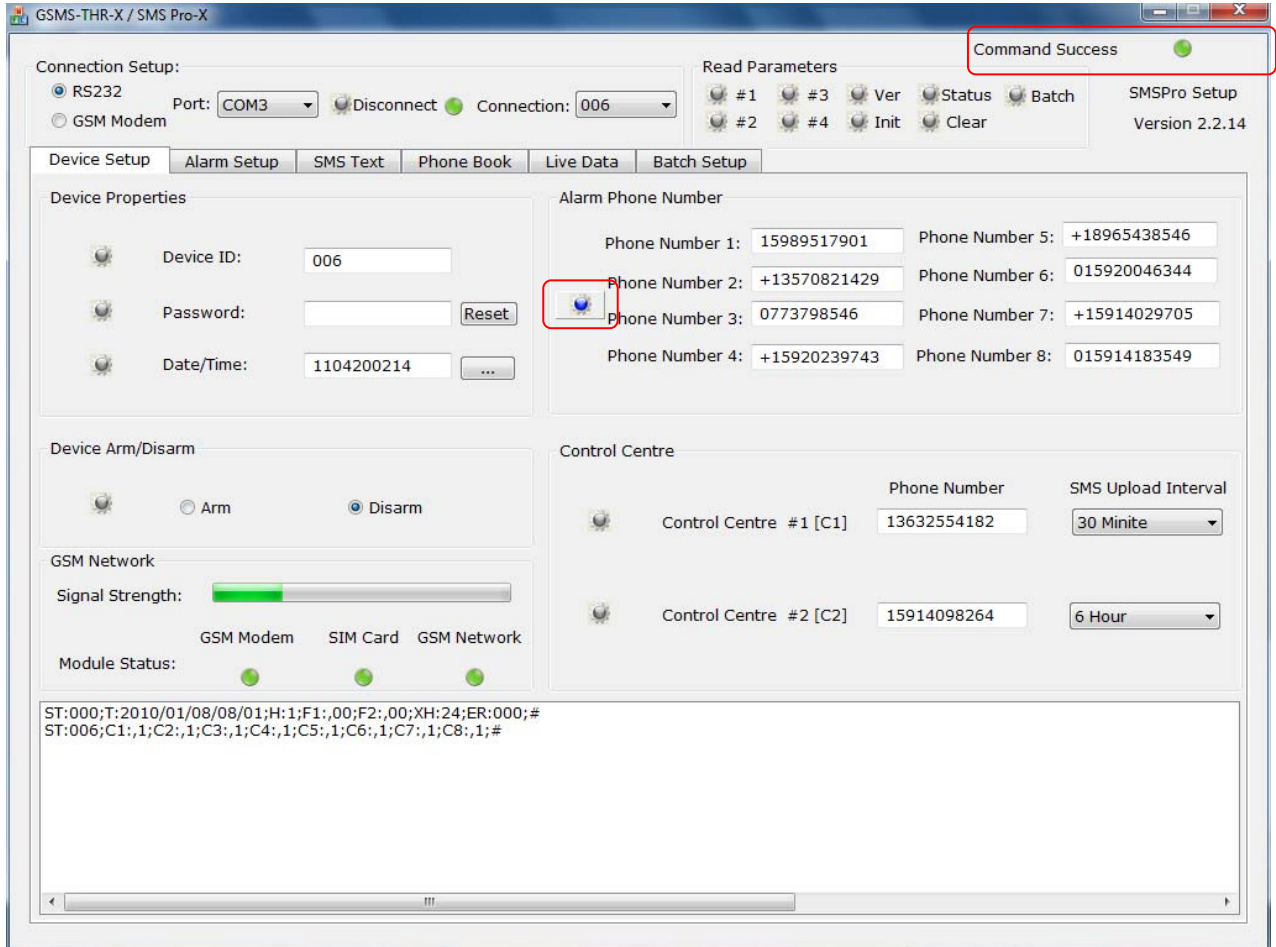
Note:

- 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 Alert Controller.

12. 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 [ ] or [Set] button to activate the command.
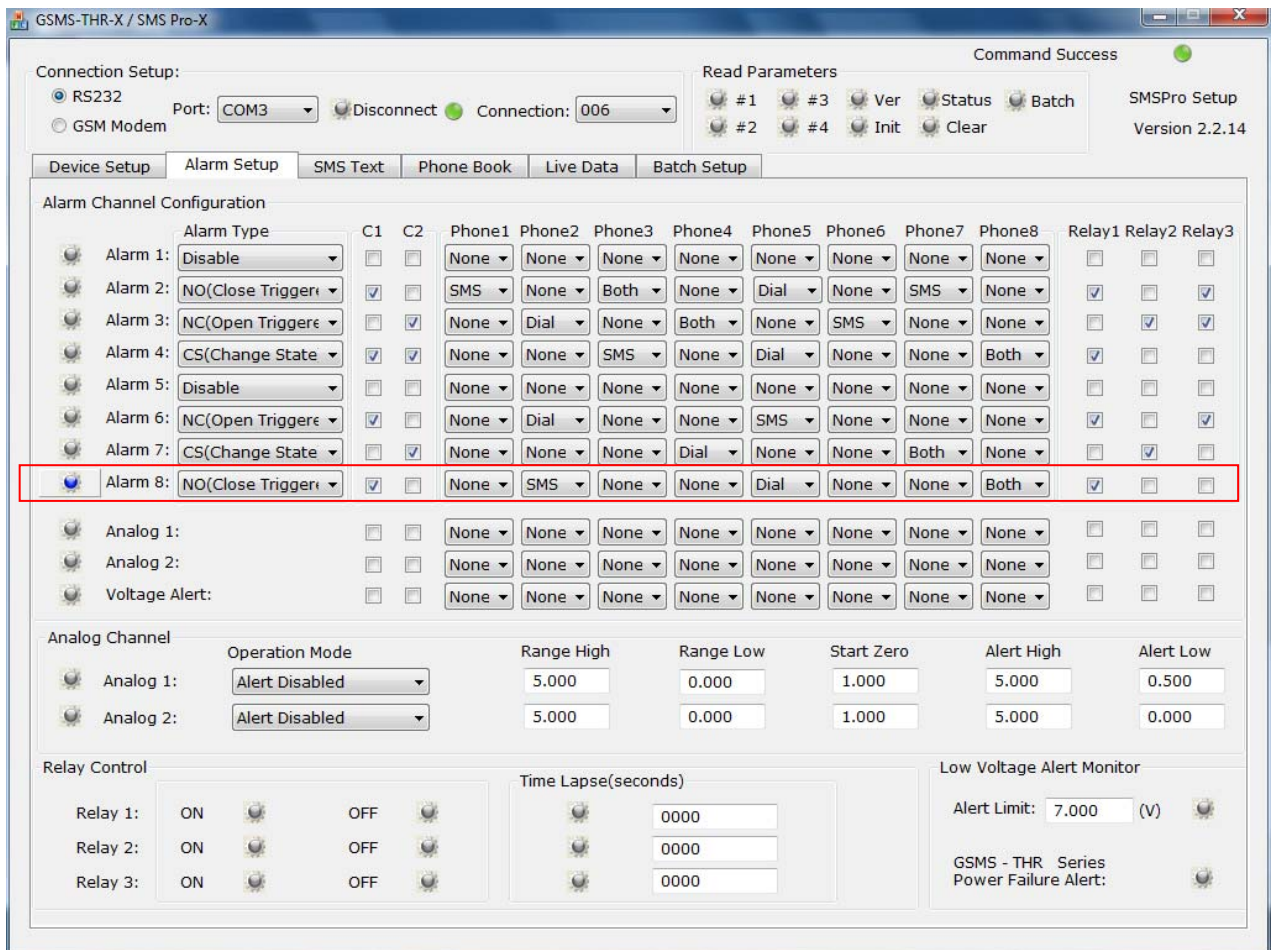
Note:

- 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 Alert Controller.

13. Power Alert

13.1   SMS Pro series

Low Voltage Alert

- External Power Supply

- Setting the voltage alert level

- SMS alarm will be sent out when the power input voltage level is lower than the alert level
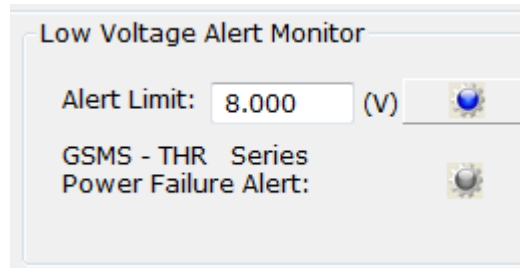
13.2   GSMS-THR series

AC Power Loss Alert

- Internal AC/DC power adaptor: 9VDC

- Internal rechargeable battery: 7.8VDC

- Alert Voltage Level: 8.5VDC
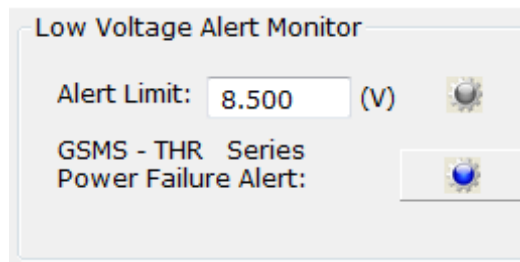
a. It has internal rechargeable battery for non-stop operation during AC power loss.

b. Click the [Power Failure Alert] button to enable the SMS Alarm during the AC power loss.

c. During AC power loss, power source will switch from AC/DC adaptor to internal battery automatically.

d. Voltage will then drop from 9VDC to 7.8VDC which is lower than the alert level 8.5V.

e. SMS Alarm will be sent to alert user of AC power loss.

14. Analog Channel

It is used to setup the AD input.

Parameters depends on the specification of sensors with 4~20mA output.

Operation Mode:

- Alert Disabled

- Alert Time Lapse Enable

  Relay is turn on then off after the time lapse when AD value is higher/lower than alert level.

- Alert High Enable

  Relay is triggered on when AD value is higher than Alert High.

  Relay will be turn off when AD resumes normal. (i.e. drops below Alert High level)

- Alert Low Enable

  Relay is triggered on when AD value is lower than Alert Low.

  Rely will be turn off when AD resumes normal. (i.e. rises above Alert Low level)

- Alert High/Low Enable

  Relay is triggered on when AD value is higher than "Alert High" or lower than "Alert Low".

  Relay will be turn off when AD resumes normal. (i.e. AD is within the range of Alert High and Low)

Notes:

- Each relay can only be associated with one AD channel alarm.

- Once relay is associated with AD channel alarm, it should not be controlled by SMS manually.

15. Relay Control

It is used to setup the time lapse of relay on/off triggered by alarm.
ON & OFF buttons are used to test the relay locally

.
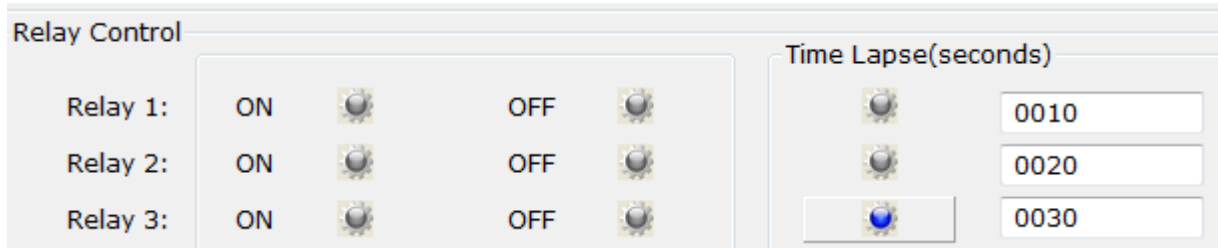
To verify the setting in "Alarm Channel", "Relay Control", "Analog Channel" & "Low Voltage Alert":

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

- Then, click [#2] & [#3] button to read the parameter setting from the device.
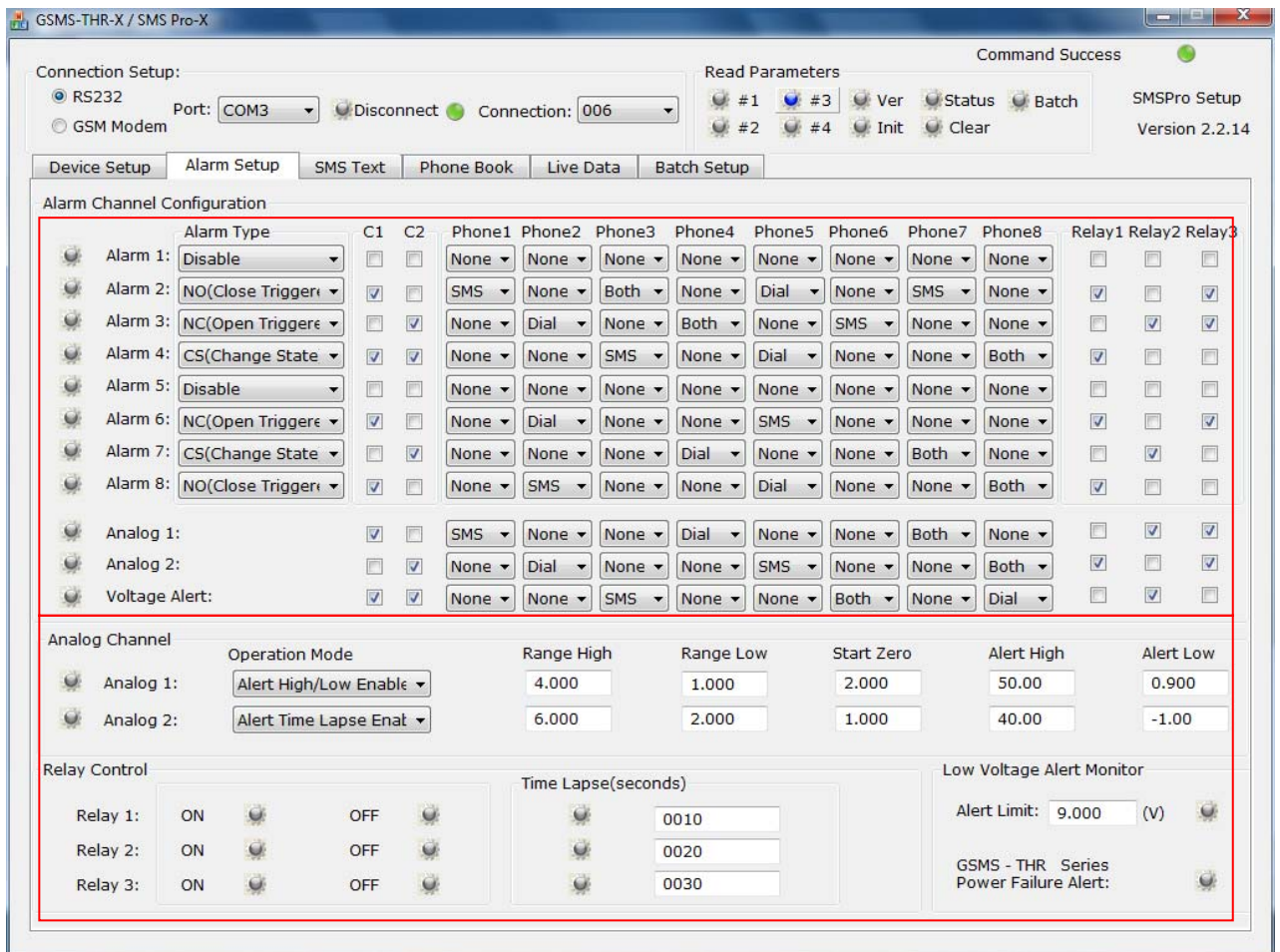
16. Temperature & Humidity Calibration

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

A)   Temperature [GSMS-THR-SX]

AD2 "Analog 2" channel is connected to the temperature sensor TH-V2.

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

   o   Values of [Range High], [Range Low] and [Start Zero] will be ignored.
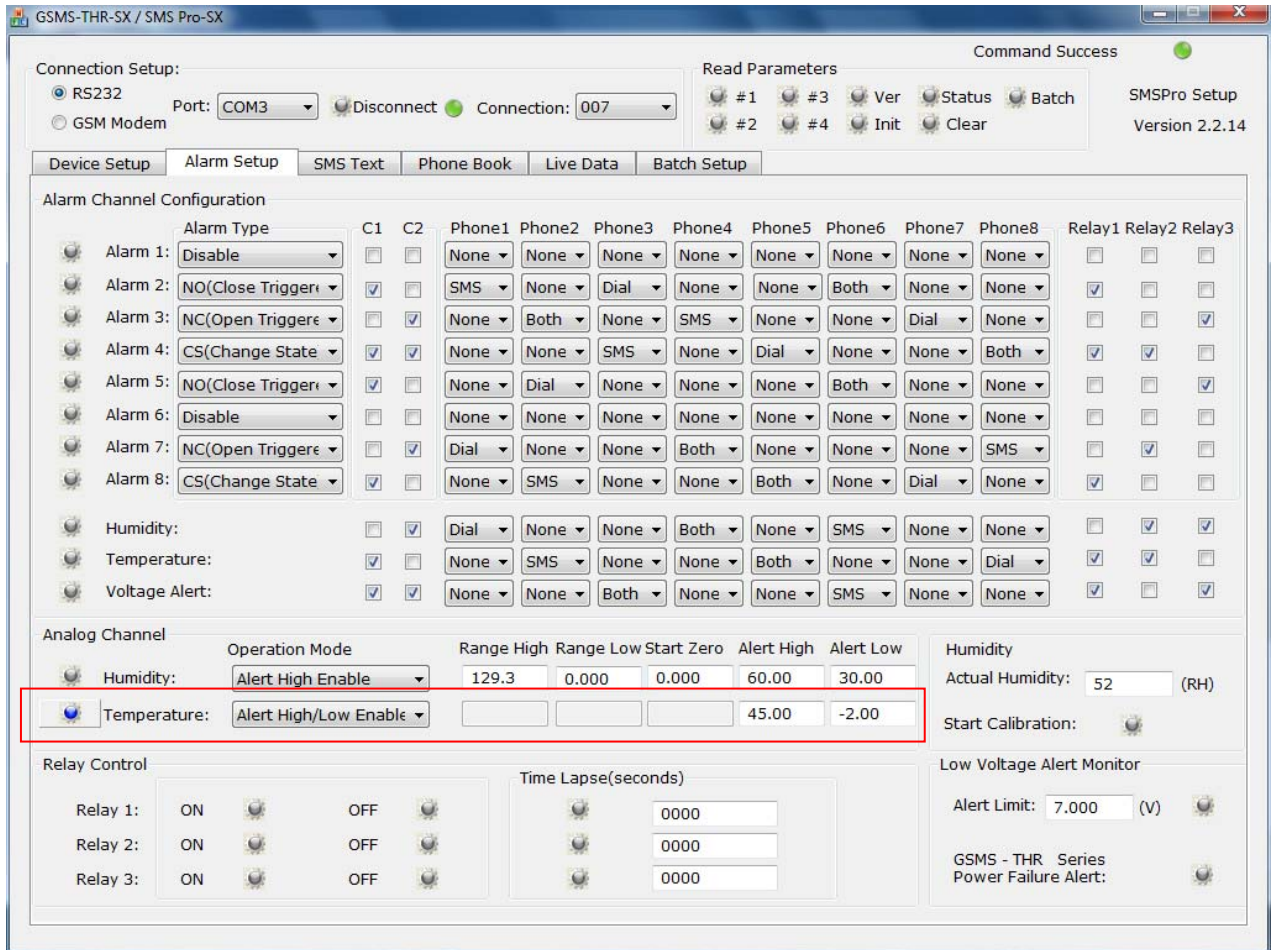
B)   Temperature [GSMS-THR-ST]

Both AD1 and AD2 channels are connected to the temperature sensors T-V2.

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

   o   Values of [Range High], [Range Low] and [Start Zero] will be ignored.
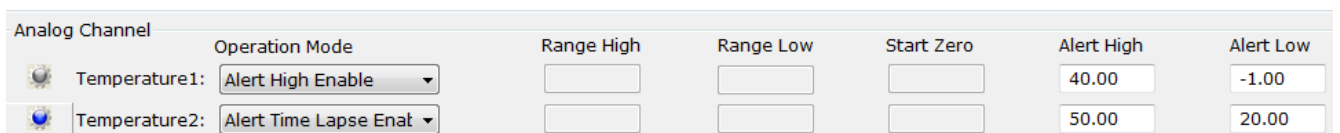
C)   Humidity [GSMS-THR-SX]

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 Alert Controller 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.

Automatic Calibration for humidity measurement

1)   Prepare an accurate humidity measuring instrument

2)   Put the instrument and SMS Alert Controller'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 153.4 by Auto Calibration.
- •   DO NOT change "Range" & "Start Zero"
- •   When humidity is higher than 80% or lower than 40%, alarm SMS will be sent.

17. 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 – close triggered

- 8 x alarm inputs – open triggered

- 2 x analog inputs [Temperature & Humidity] – Alert High alarm message

- 2 x analog inputs [Temperature & Humidity] – Alert Low alarm message

- Low Voltage Alert

A) SMS Text Setup

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

Each alarm can be configured with its own individual SMS text for close and open triggered.

a) Selecting the channel, and type the alarm message

b) Click [Set] button to set the alarm SMS text into the device
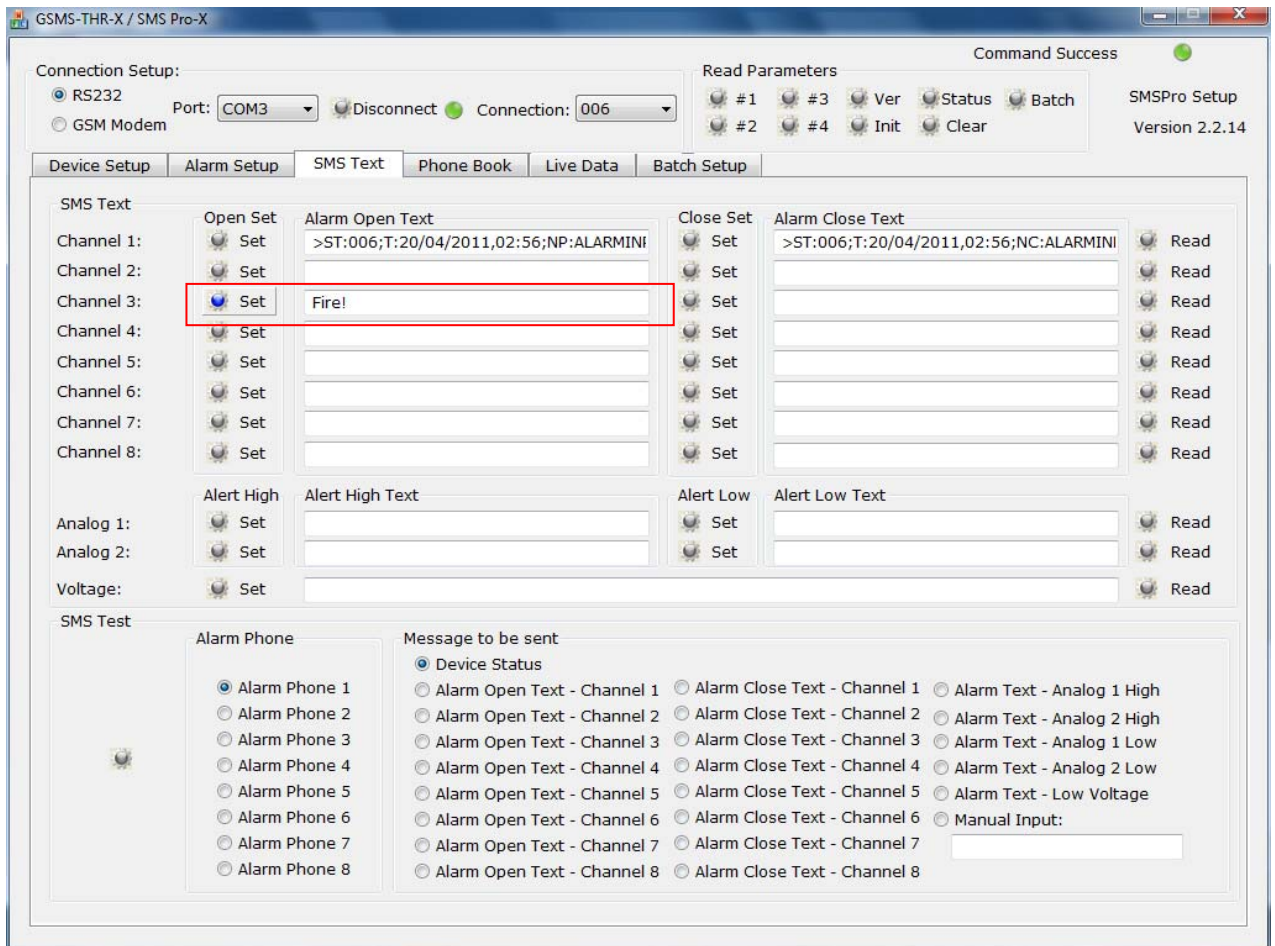
B) SMS Text Read

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

a. Setting Digital Channel Alarm Text
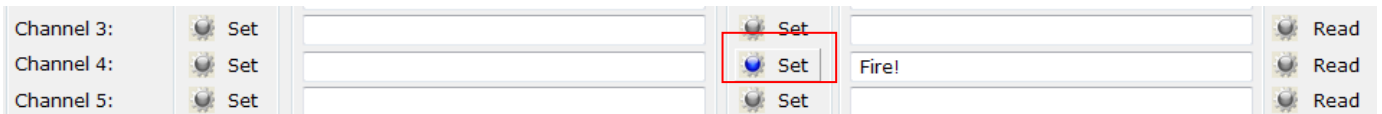
b. Reading Digital Channel Alarm Text
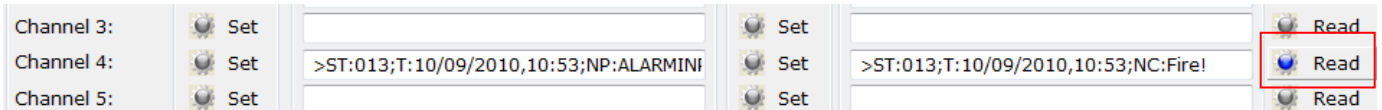
a. Setting Analog Channel Alarm Text
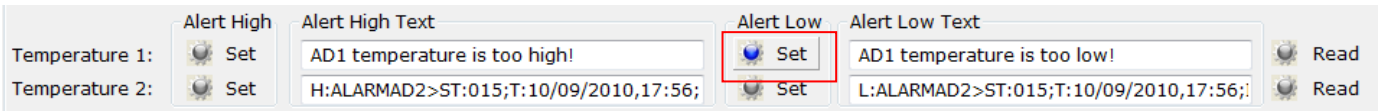
b. Reading Analog Channel Alarm Text
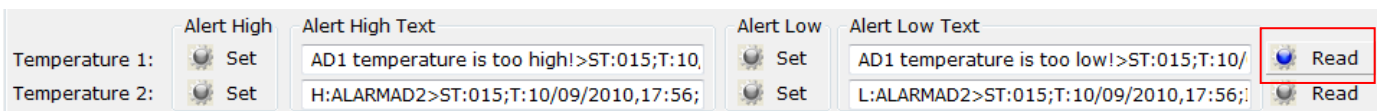
Notes:

- [Read] command will display the SMS Alert Controller - 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.

SMS Pro-S, SMS Pro-SX, GSMS-THR-SX

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

C)   SMS Text Testing

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

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 instead of preconfigured alarm text
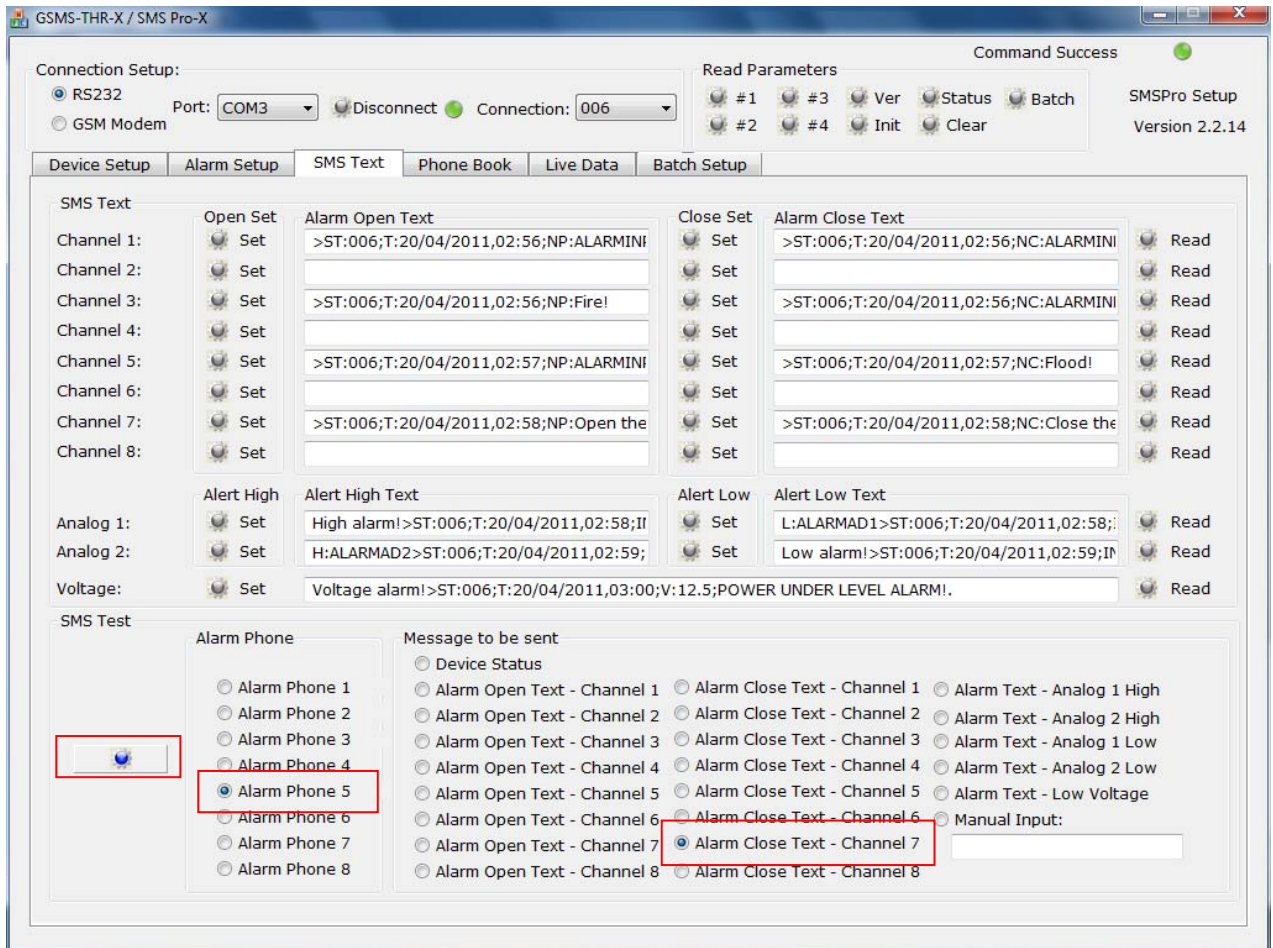
In the above example, the Channel 7 "Alarm Close Text" alarm SMS text will be sent to alarm

phone 5 when the [button] button is clicked.

ⓘ Alarm Phone 3 must be configured in the device setup tab in advance.

D) Alarm SMS received by mobile phone

    1   Alarm Channel

- Setup Software configures SMS Text as "Fire Test".
- Message received by mobile phone will be：

  > ST:000;T:21/08/2010, 09:36;NP: Fire Test

    2   Analog Channel

- Setup Software configures SMS Text as "High Temperature".
- Message received by mobile phone will be：

  High Temperature>ST:000;T:21/08/2010, 09:58;INPU AD2 ALARM!;A2:30.56.

18. Device Reset

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

Press <Ctrl> key, and click [Init] button
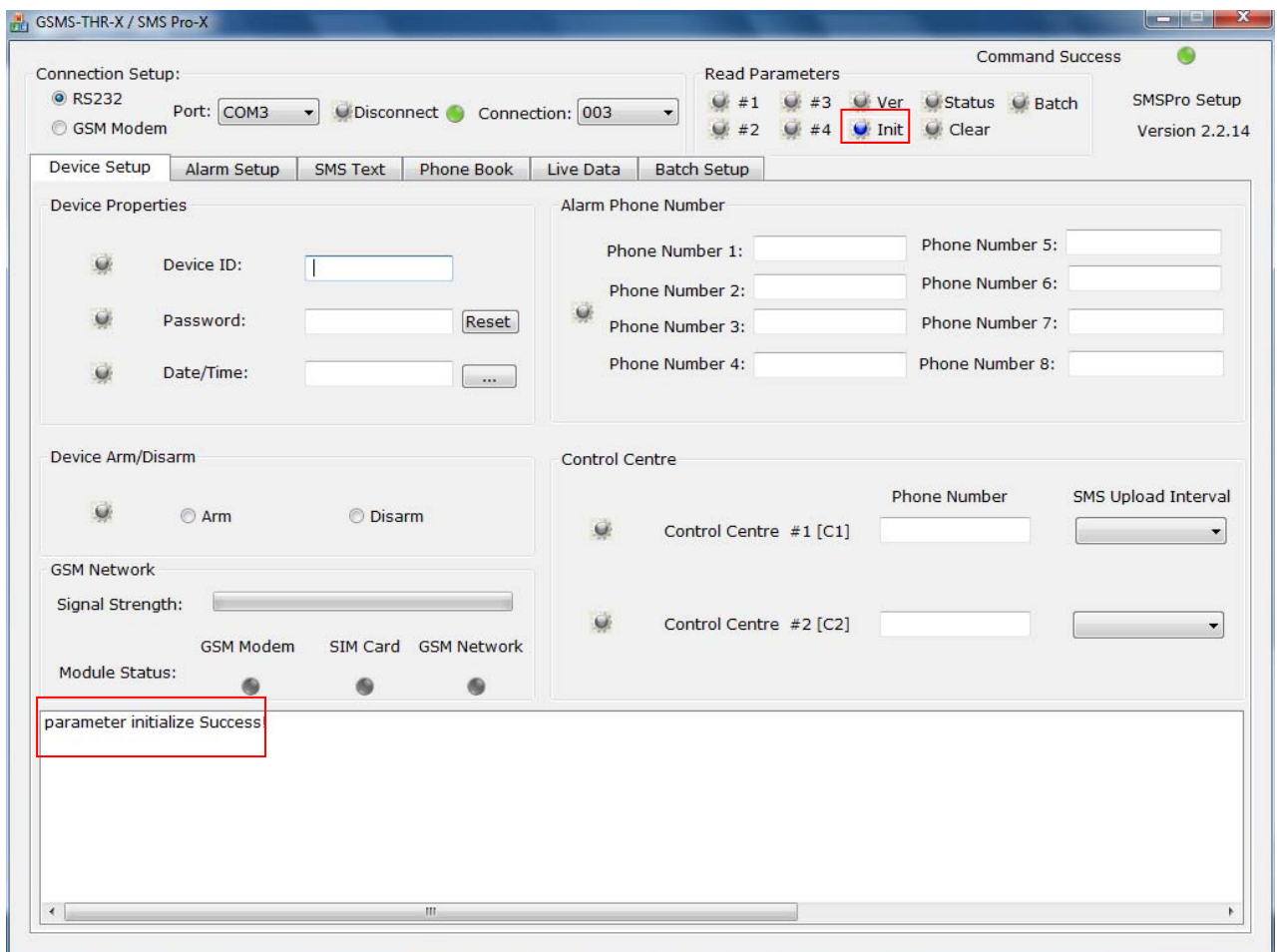
19. Save Configuration in Batch

This is to allow user to read all the parameters from the device connected in one single button.
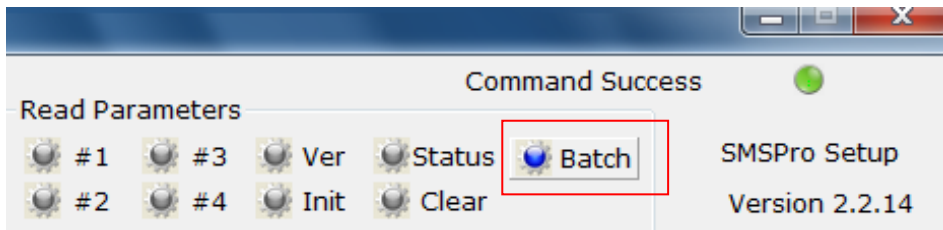
After completing the setup of each channel and other properties in previous sections, click [Batch] button to retrieve all the parameters from the device.
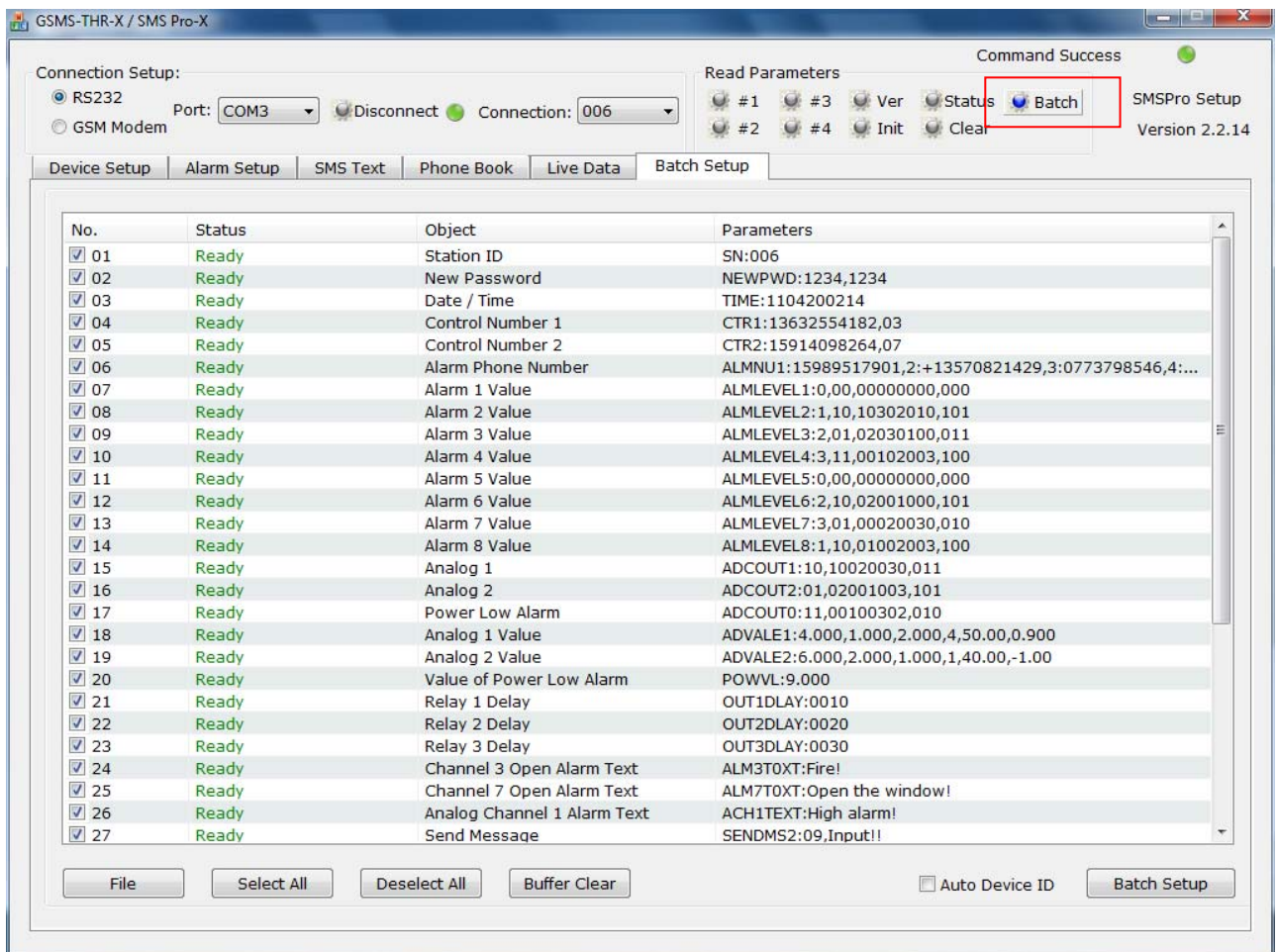
Click [Select All]
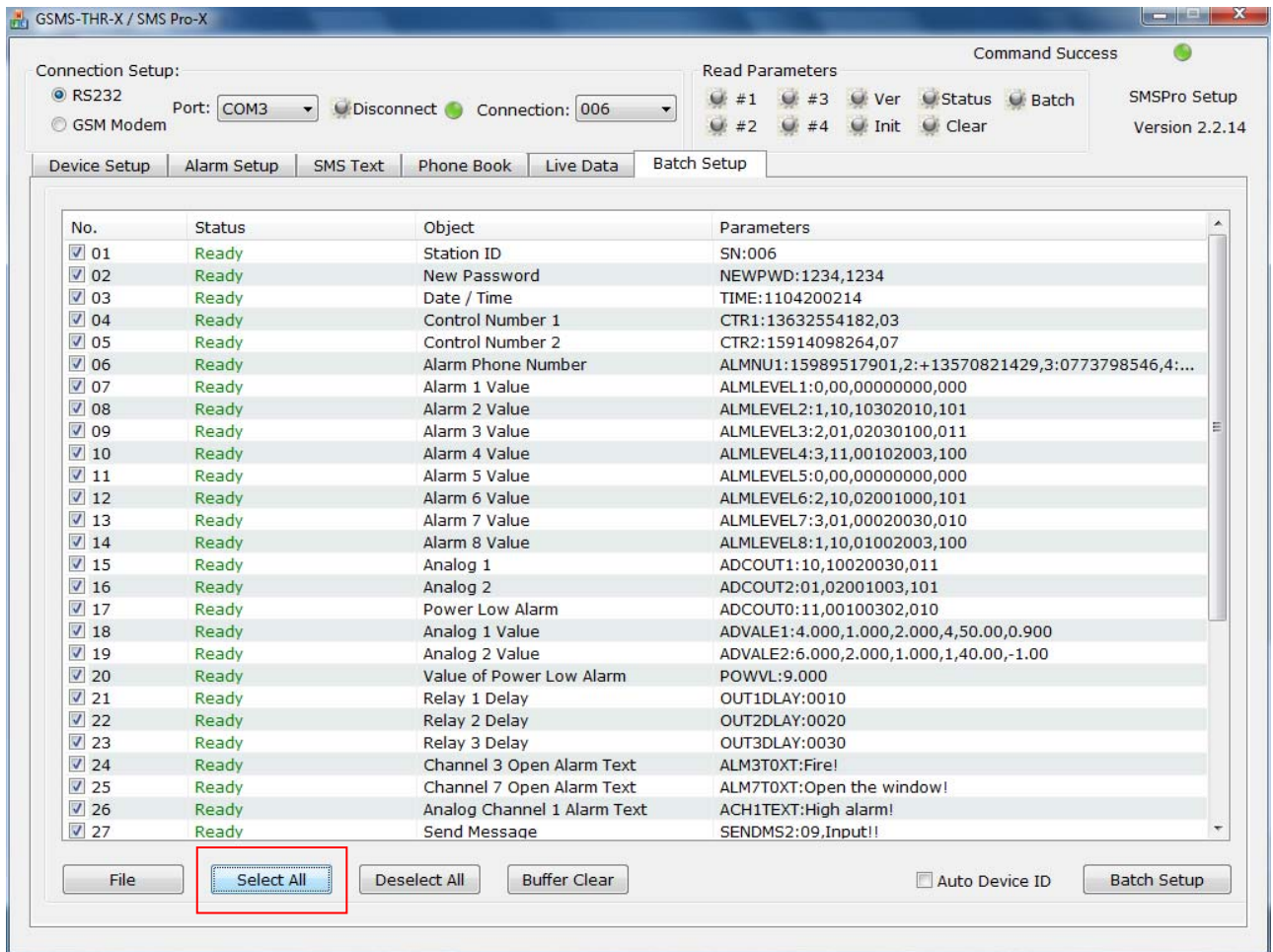
Right click the [File] button, and select "Save Configure File"

Select the folder path
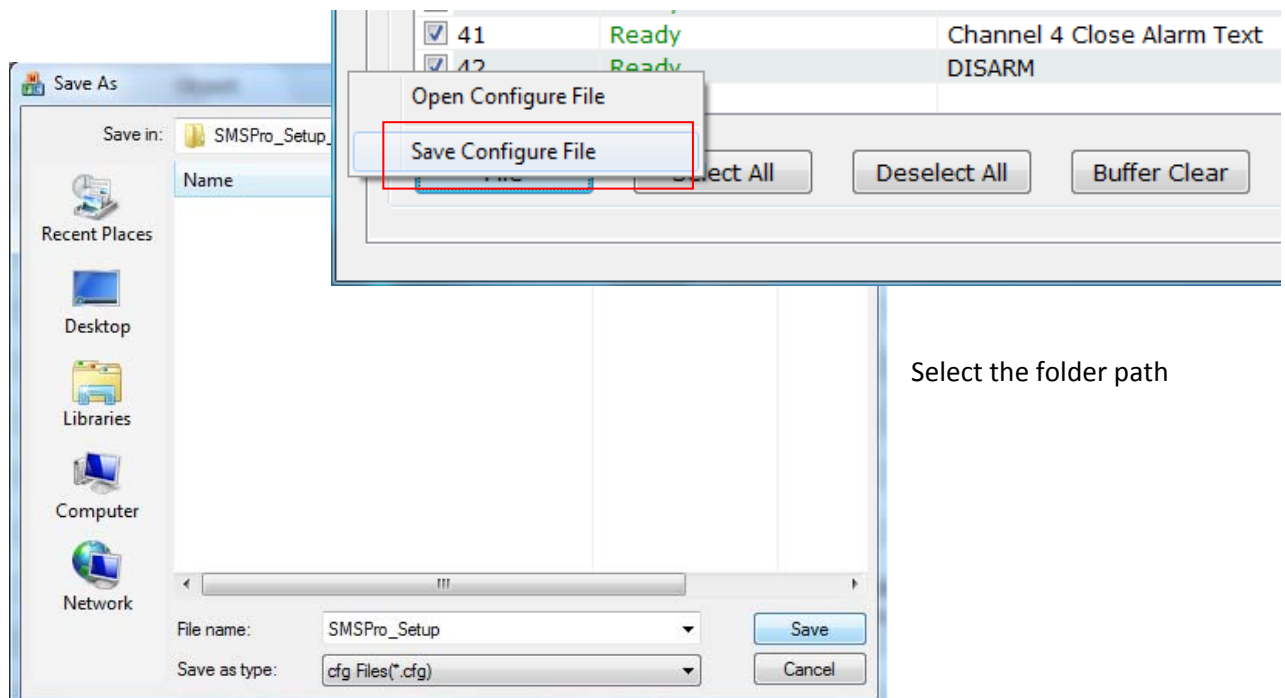
The configuration parameters will be saved in "SMSPro_Setup.cfg" file

20. Batch Setup

This is to allow user to open the saved configuration file, and setup all the parameters to other devices just by one single button.

Connect new device to PC COM port

Complete the connection procedures

Open the configuration file
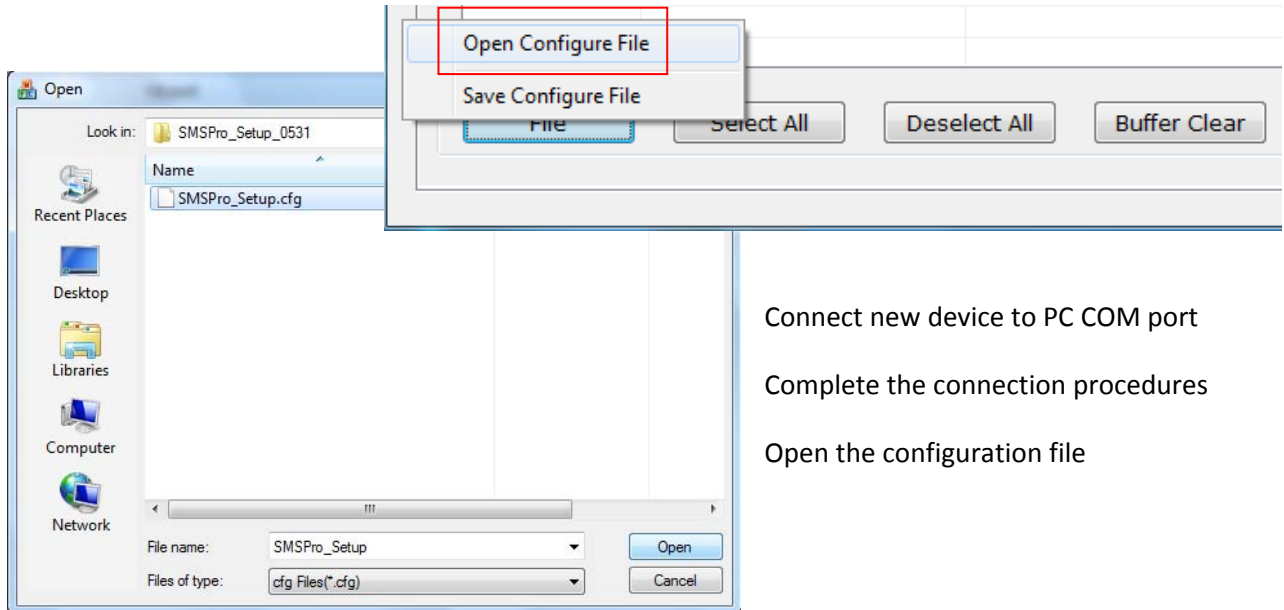
All parameters will be retrieved and displayed as below.
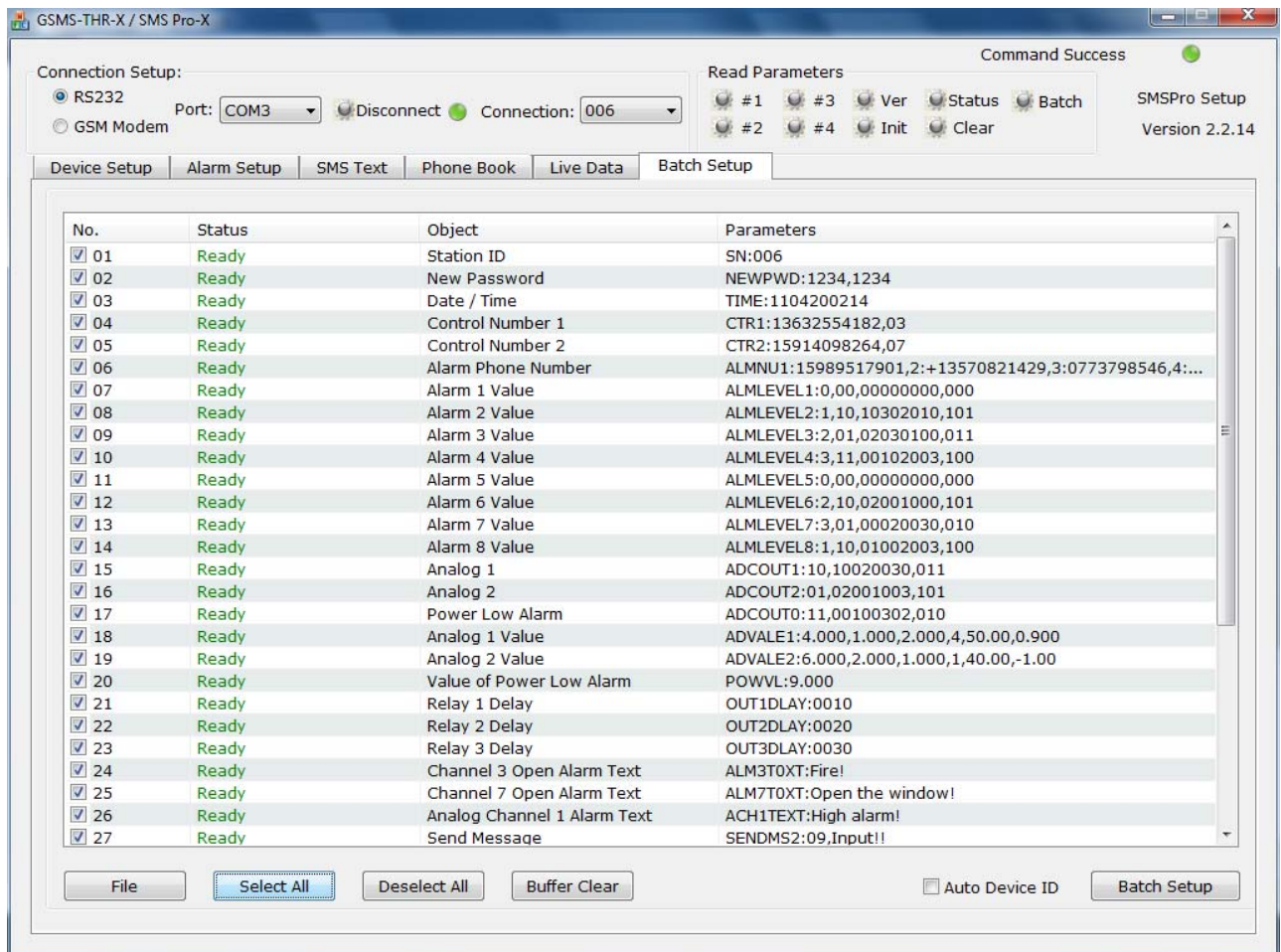
Click [Select All]

Or selective parameters can be clicked
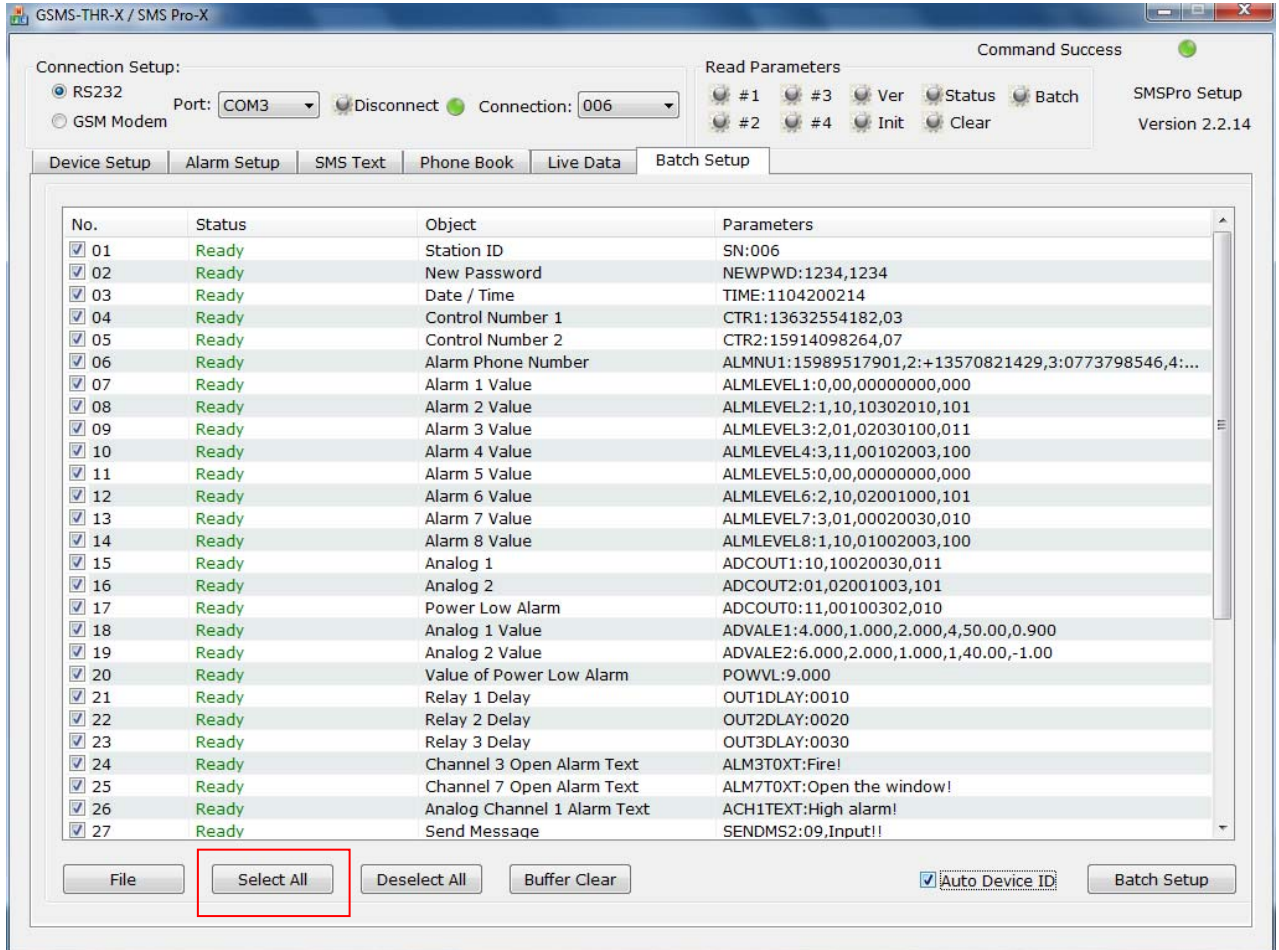
Click [Auto Device ID], it will configure the device ID in sequential number automatically.
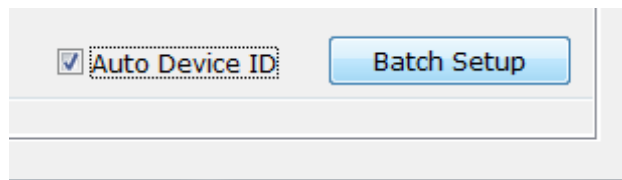
Click [Batch Set]

It will start to setup the selected parameters to new devices automatically.

Each parameter will be configured into the device one by one, and status will be displayed.
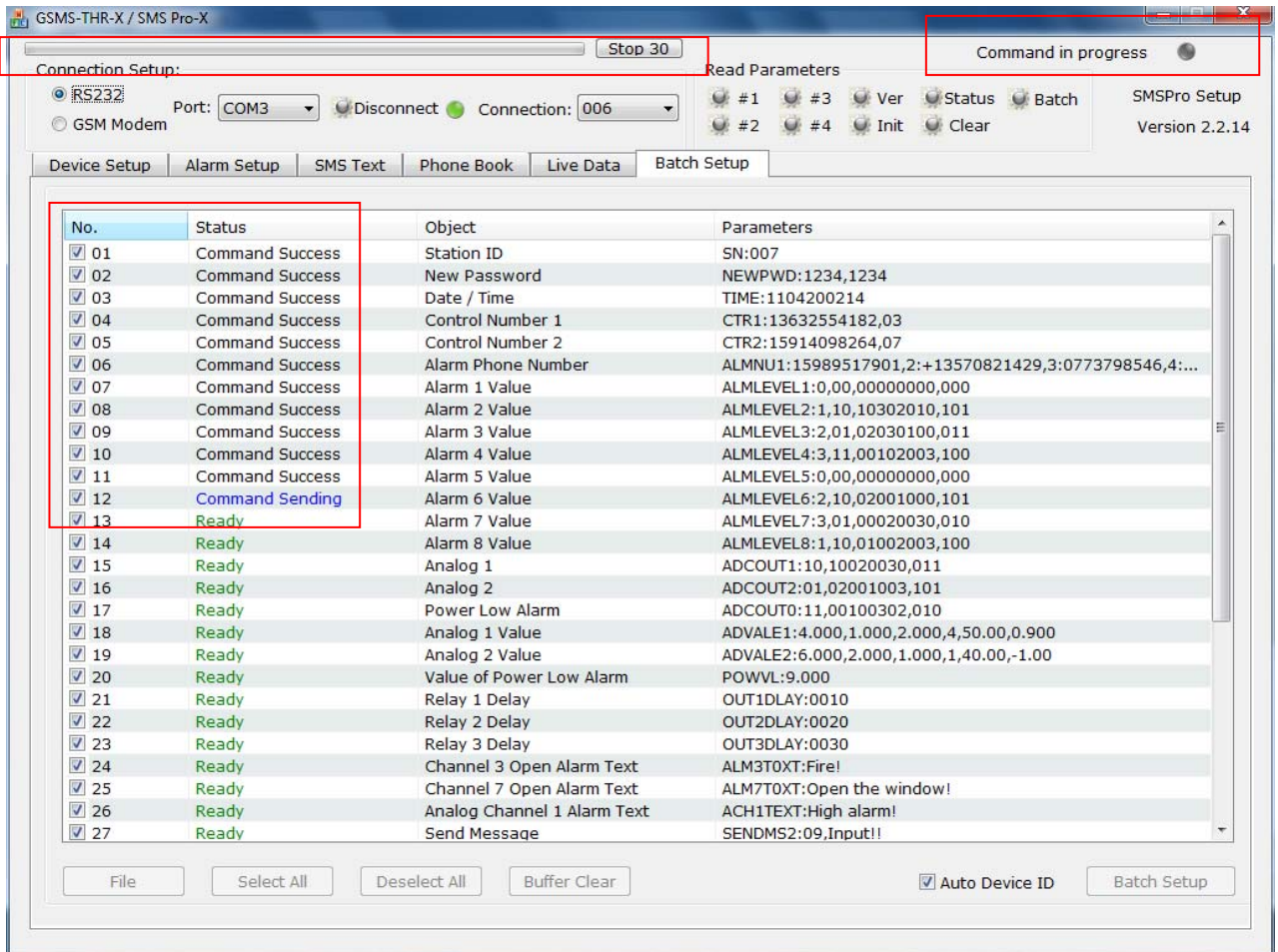
It may take some time to complete all the parameters setting.

"Command Success" indicates all parameters configuration is completed.
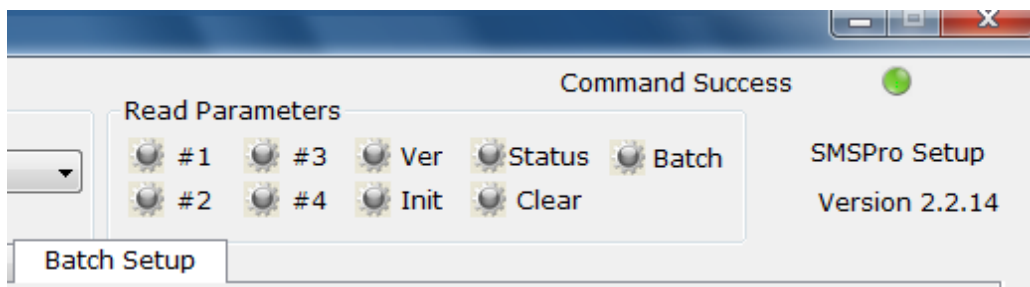
21. Remote Setup via GSM Modem
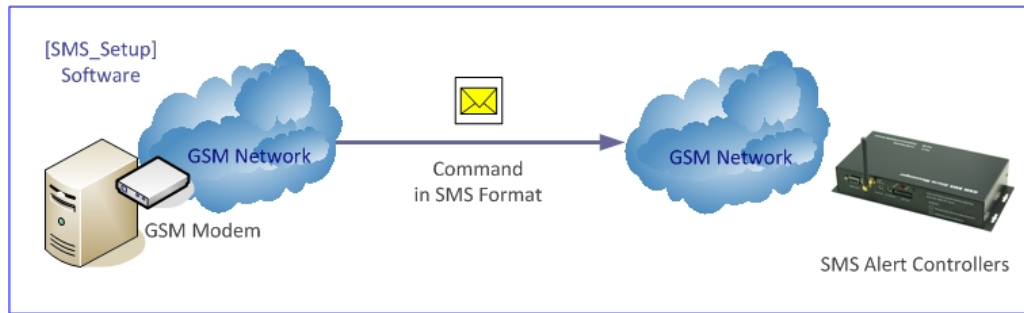
- Connect the GSM Modem with "Direct Link Serial Cable", select [GSM Modem] and COM port

- Click [Connect] button, green LED indicates the successful connection
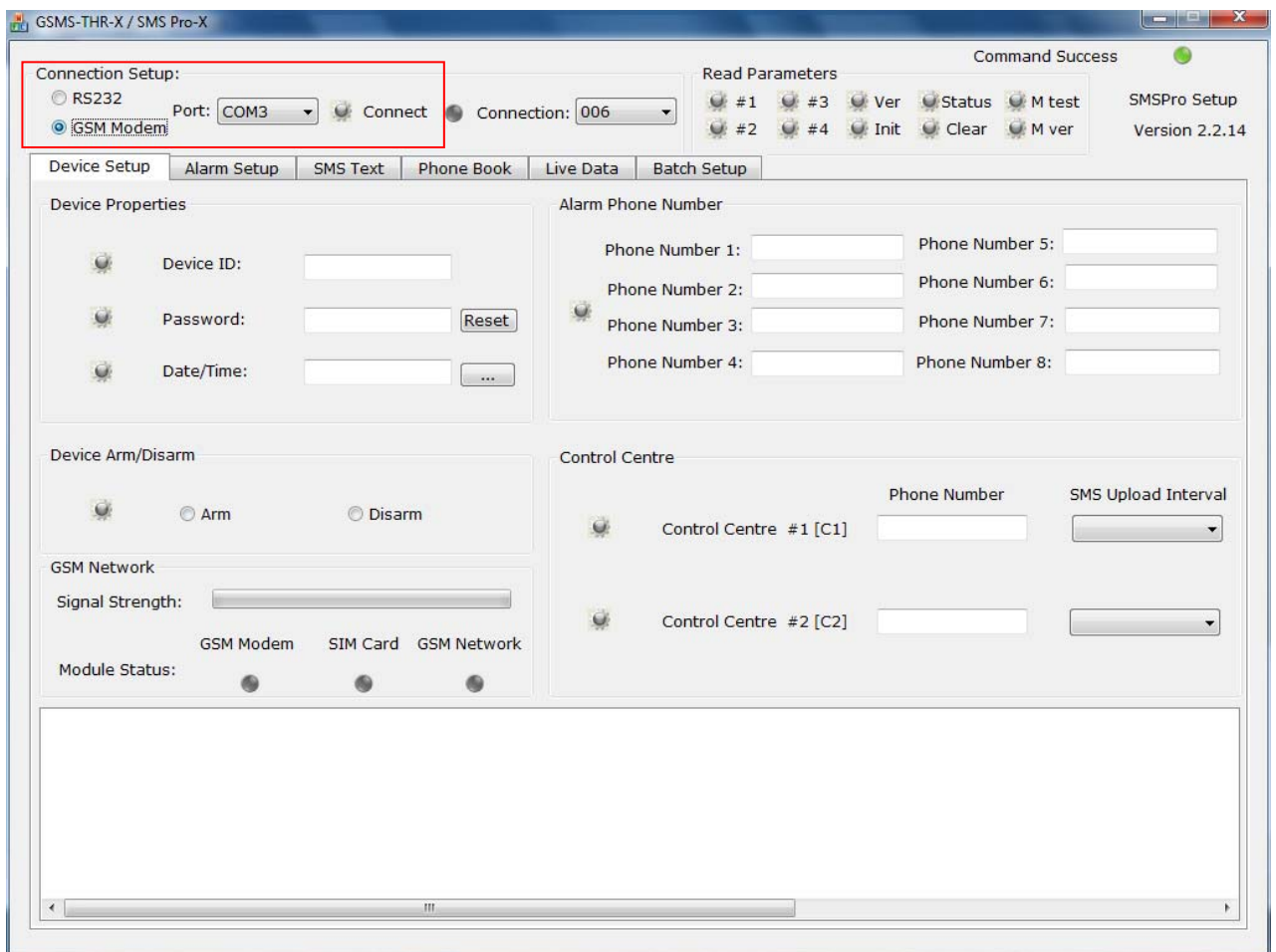
- Select Connection No. which should be preset in phone book.
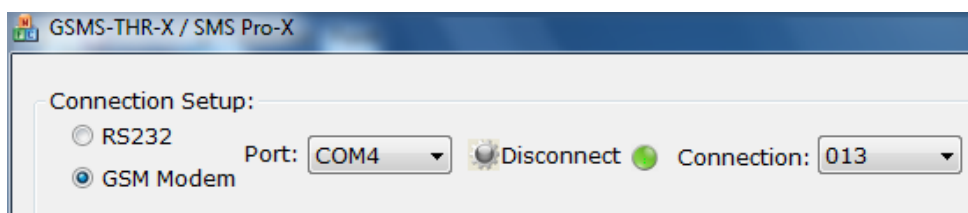
Note: GSM Modem GS300 is purchased separately.

- Click button [#1], "Command in Progress" will be displayed.

- Since command is sent by GSM modem to SMS Alert Controller by SMS, progress time will be longer than local setup via RS232 port.

- Once completed, "Command Success" will be displayed and parameters will be listed and displayed.

- This feature is mainly for setup modification after site installation.
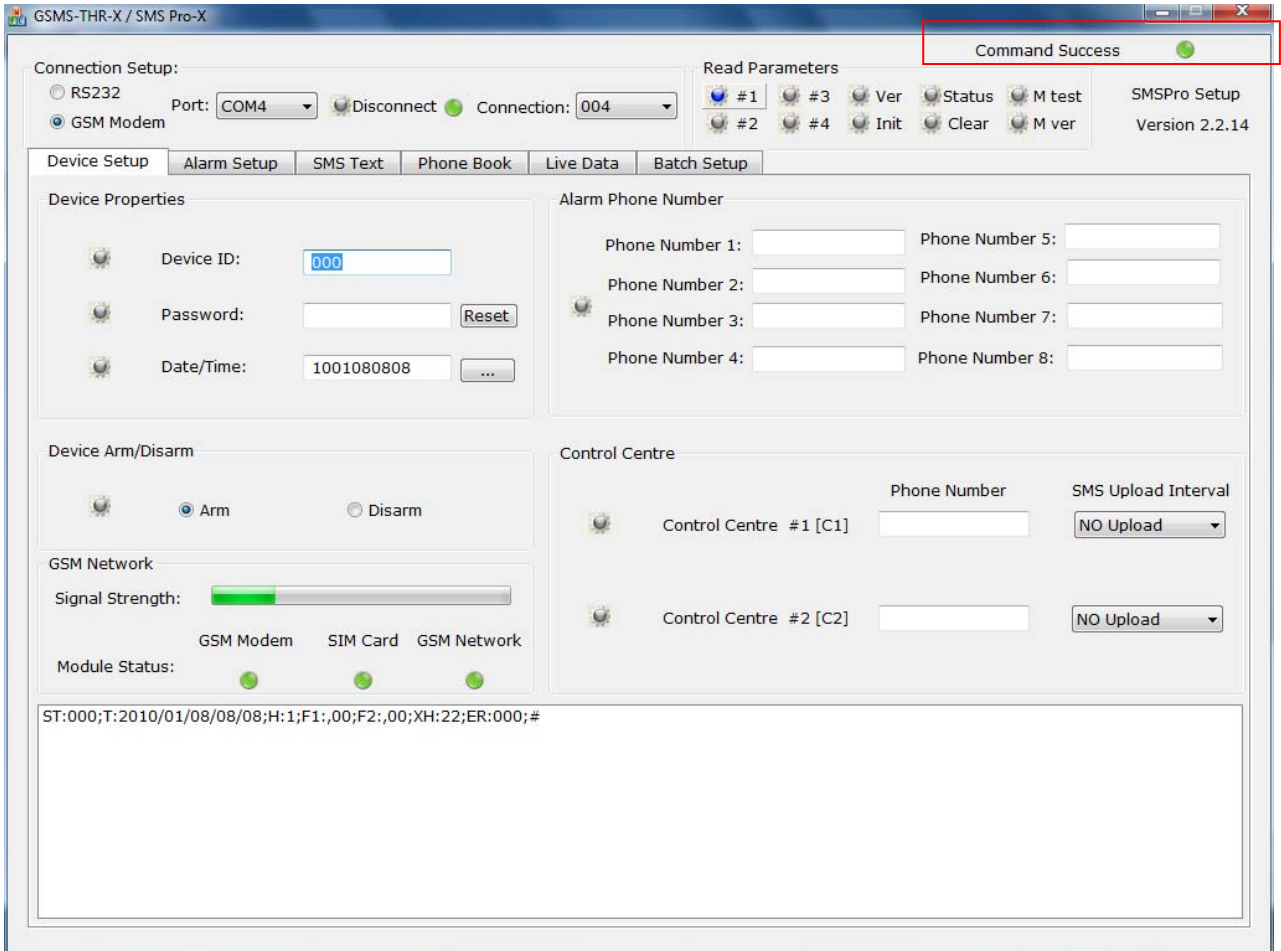
22. GSM Modem Check

- Click [M Test] button to test the GSM Modem
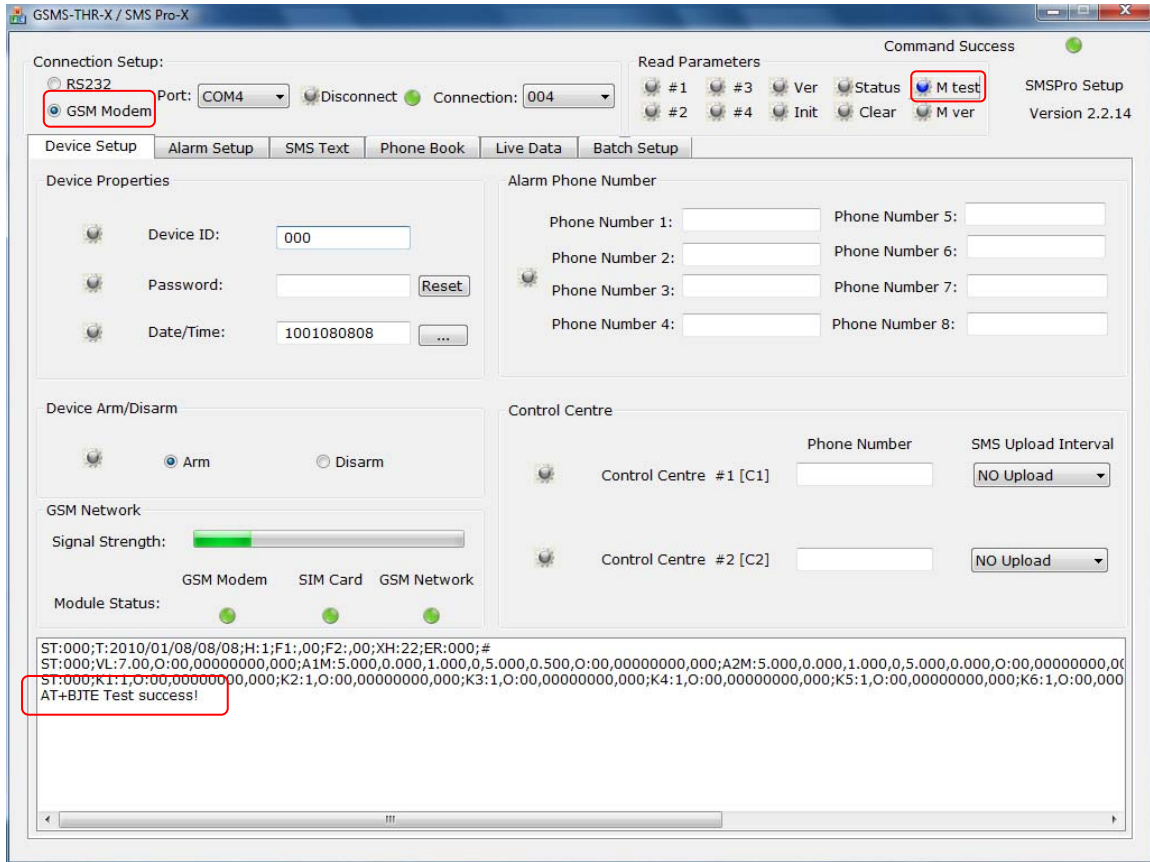
- Click [M ver] button to check the version of GSM Modem
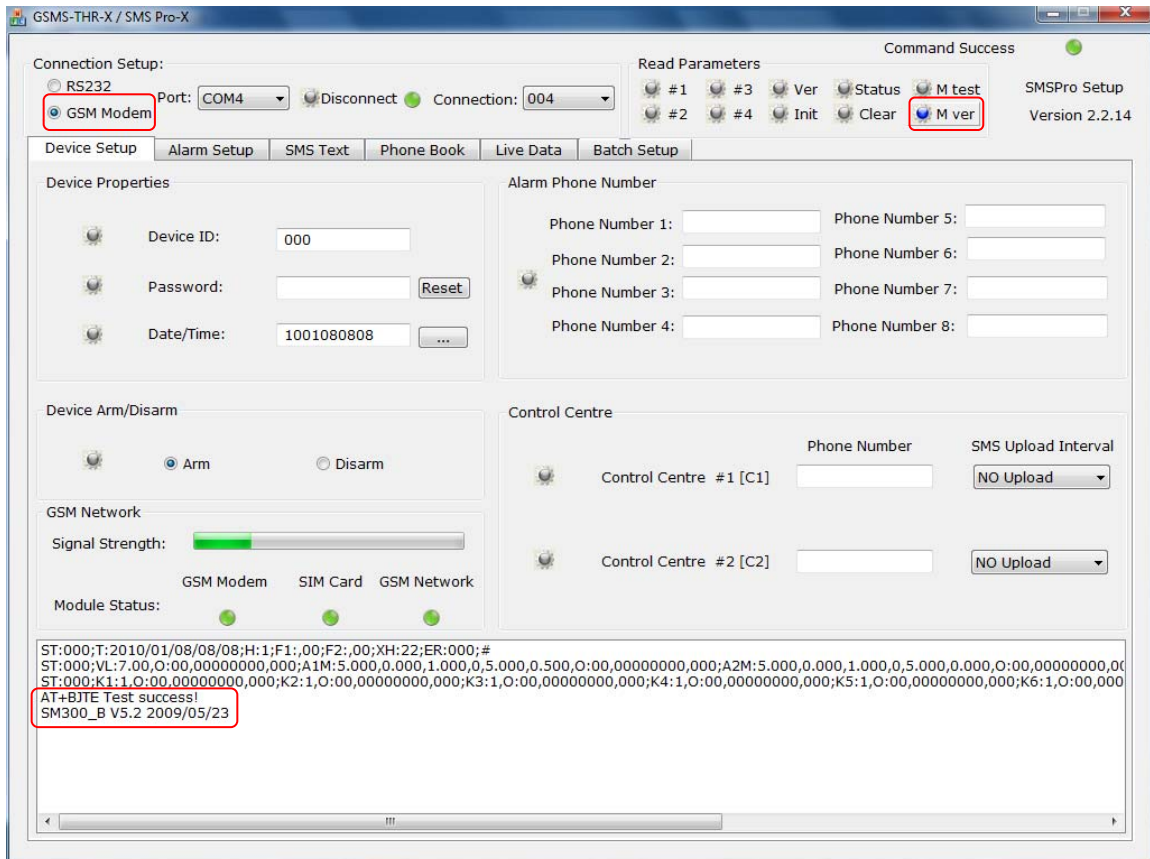
23. Technical Support

Always report the Product Key SN when contact with our technical support.

Mouse Right Click the main menu bar.
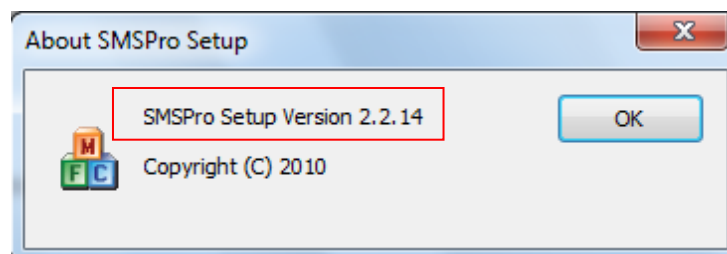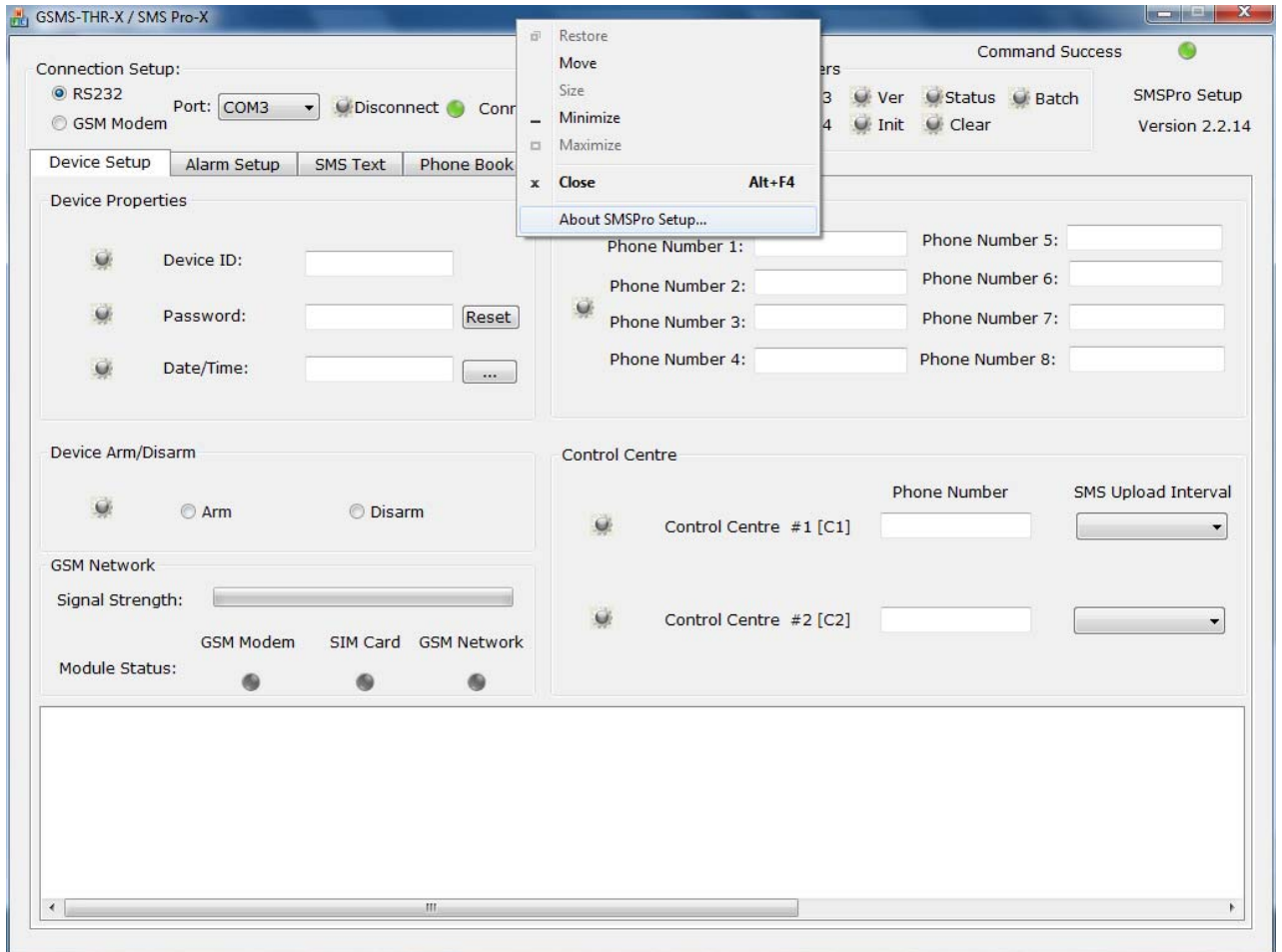
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