



# GSM Alarm

## RC37





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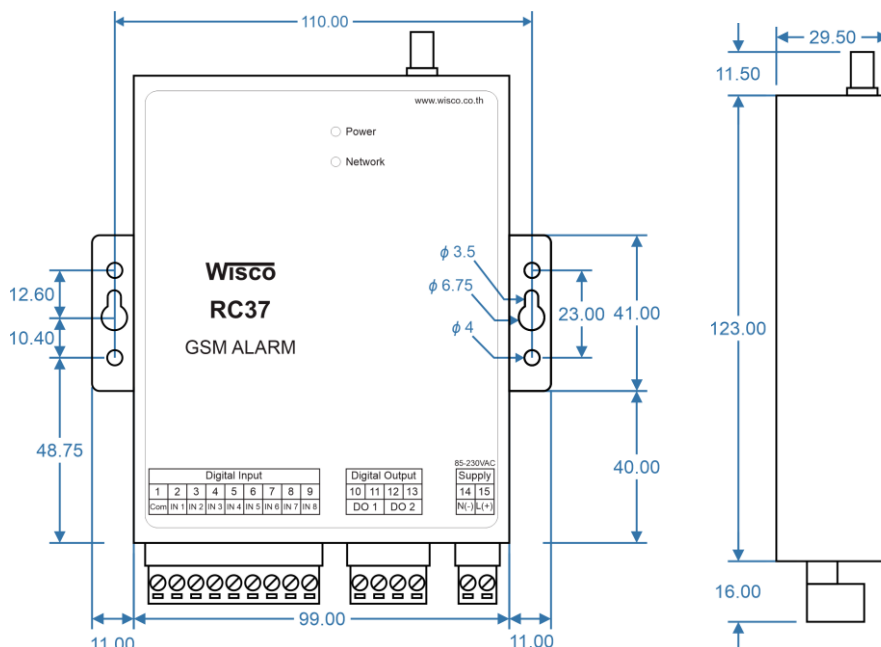
# GSM Alarm RC37



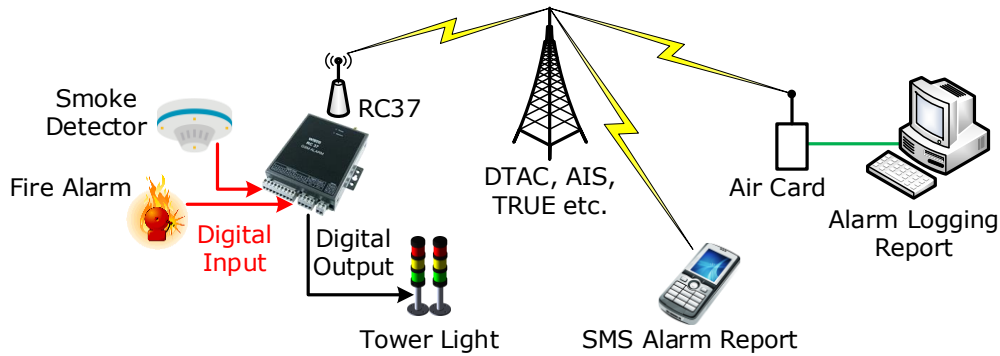
- 8 Alarm Digital inputs
- Programmable SMS Message
- Buffer 32 Alarm (Network Fail 15 Minute)
- 2 Digital Output Controlled by SMS
- Built-in 3G Modem (UMTS/HSDPA)

**GSM ALARM RC37** is device which send alarm message to desire mobile phone. RC37 have 8 digitals input, up to 15 receivers. Whenever status of each digital input has been Check RC37 will send SMS to receiver mobile phone. More over RC37 have 2 digital output which are controlled by SMS

## Dimension (Unit: mm.)

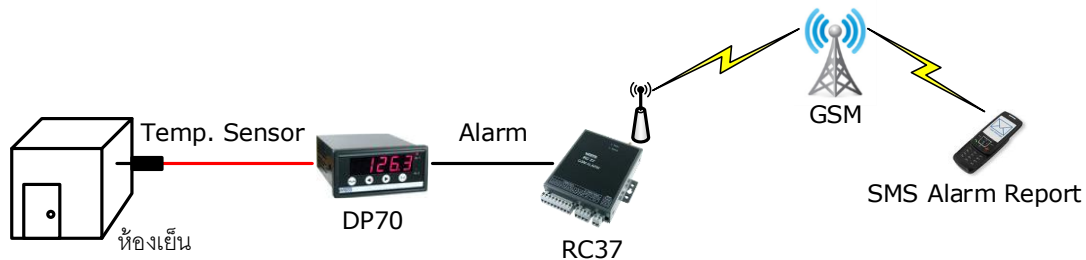


## I. Application



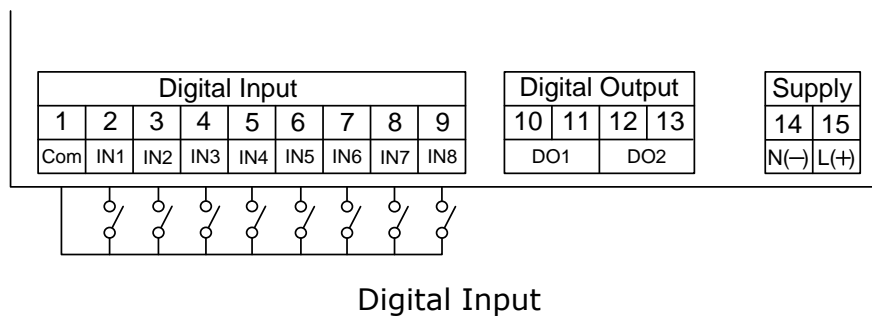
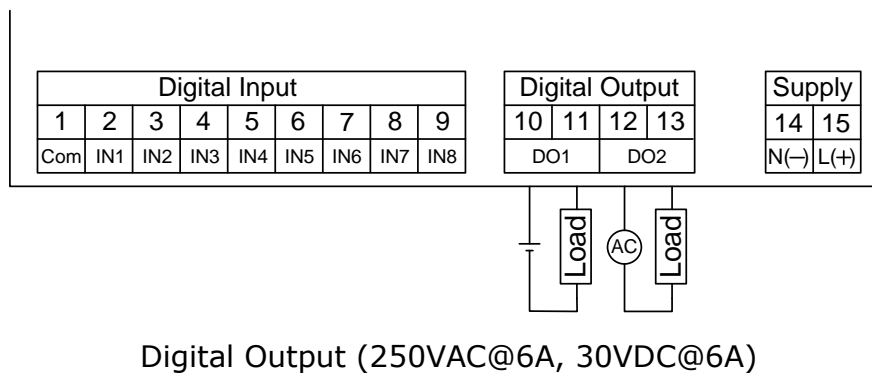
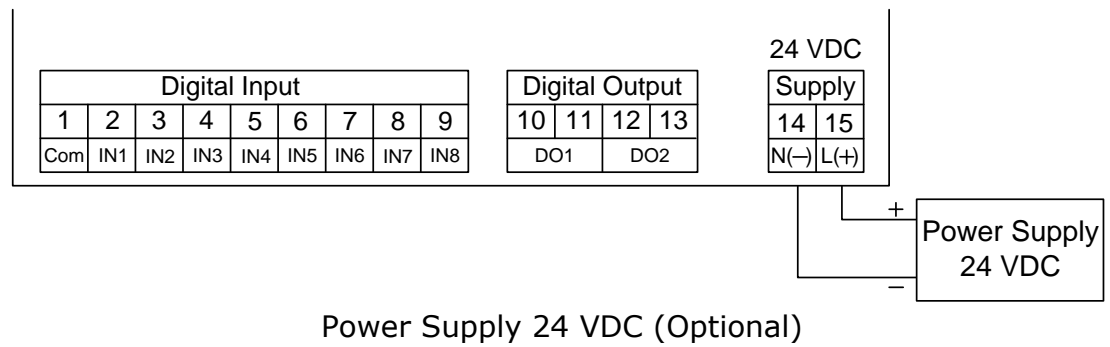
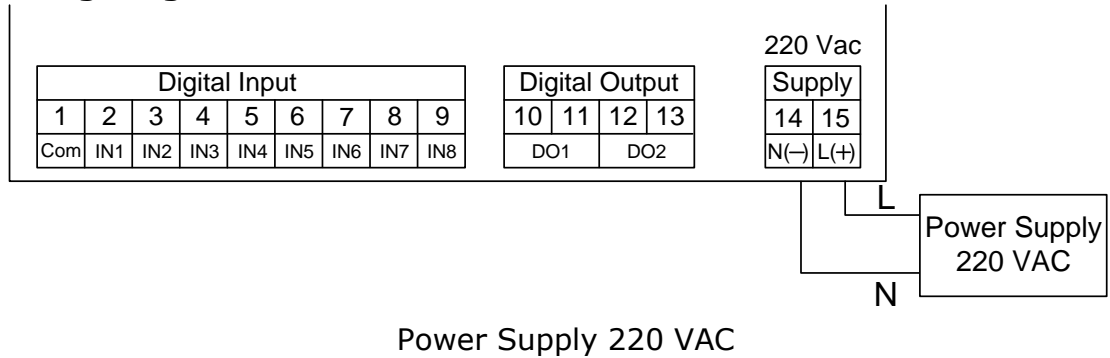
DateTime	Sender	Message
13/1/2553 17:56:51	66896252145	Rayong Plant : Tank B High Temp
13/1/2553 15:05:25	66891542156	Bangkok Plant : Tank B Low Alarm
12/1/2553 8:14:37	66894258474	Saraburi Plant : Power Up
11/1/2553 10:44:45	66894258474	Saraburi Plant : Power Fall
11/1/2553 22:30:55	66895845845	Rayong Plant : Tank A High Alarm

SMS Report for computer

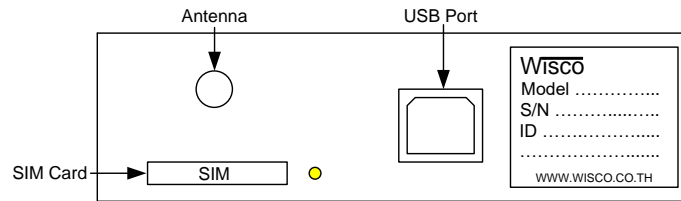


Example : Alarm a malfunction of the cold room

## II. Wiring Diagram

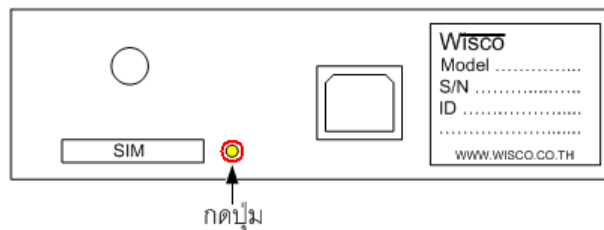


### III. Remove SIM Card

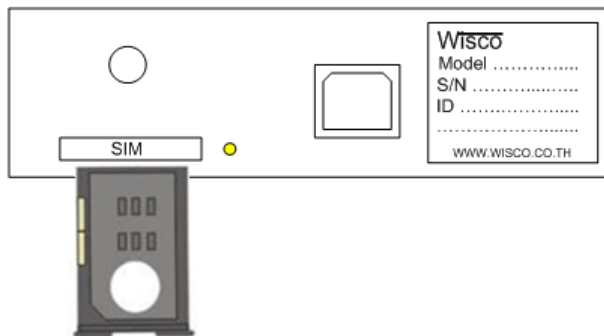


In order to remove SIM Card user need to turn power off then follow the step:

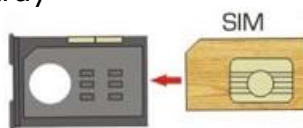
- ❖ Push the yellow button



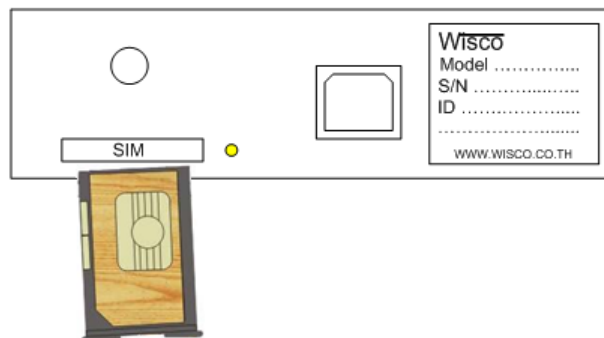
- ❖ Remove SIM Card Tray



- ❖ Put SIM Card into the tray



- ❖ Insert SIM Card Tray back to the slot





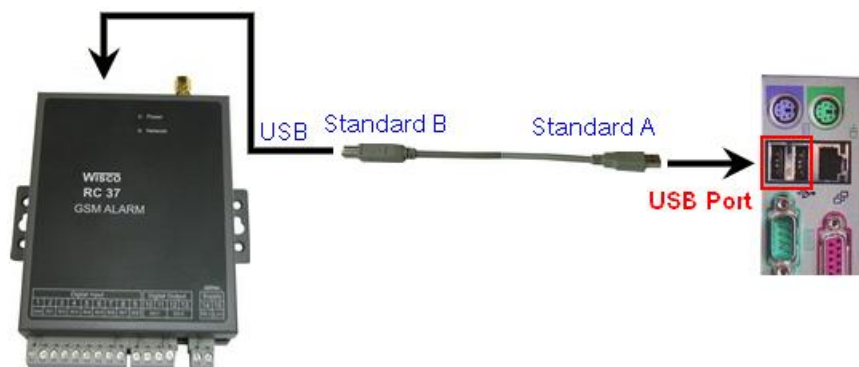
#### IV. Connect to PC

##### Connect via USB Port

USB have 2 types which are Standard A and Standard B. Standard B use to connect to RC37 and Standard B connect to USB Port of computer PC

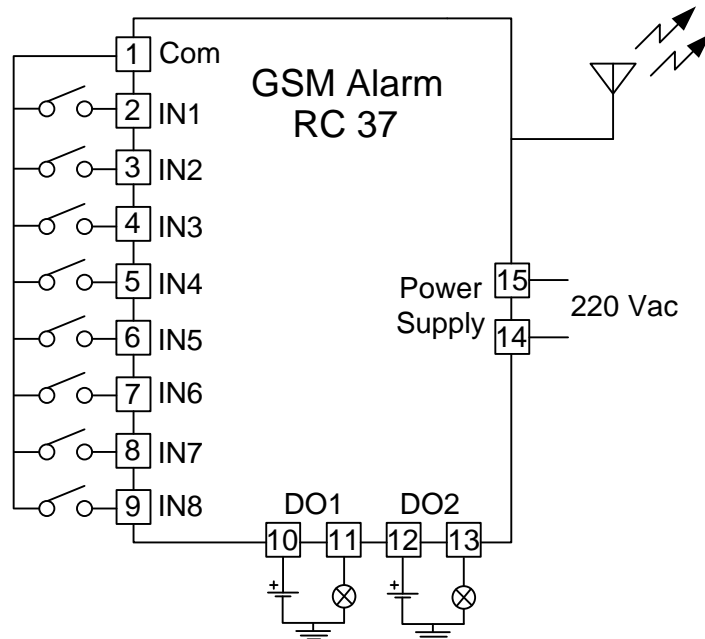


USB standard A, USB standard B and USB port of Computer PC



Connect RC37 to Computer PC via USB Port

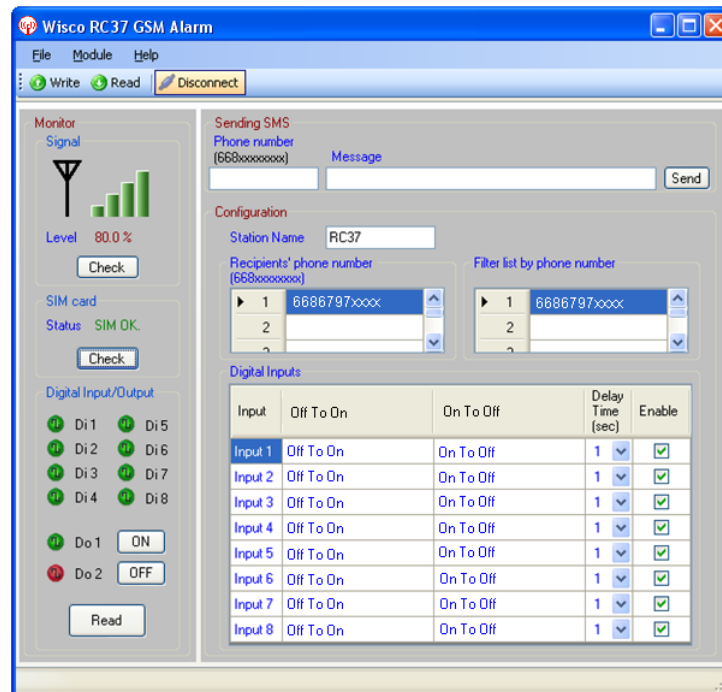
## V. Function of RC37



Wiring Diagram

- ❖ Wisco RC37 GSM Alarm is for setting up RC37 such as set Module name, receiver phone number, number of mobile that can control RC37 output, Alarm message.
- ❖ RC37 has working sequences as:
  - RC37 received input signal and then check with alarm condition that has been set. SMS will be send according to user setup
  - RC37 digital output will be controlled by authorized SMS
  - RC37 can send SMS to inform status of each input and output by send SMS with instruction code

## Wisco RC37 GSM Alarm



**Wisco RC37 GSM Alarm** is program for config RC37 set up, SMS testing, indicate signal strength, check status of input and output and can control output.

## 1. Note before using Wisco RC37 GSM Alarm

### USB Port

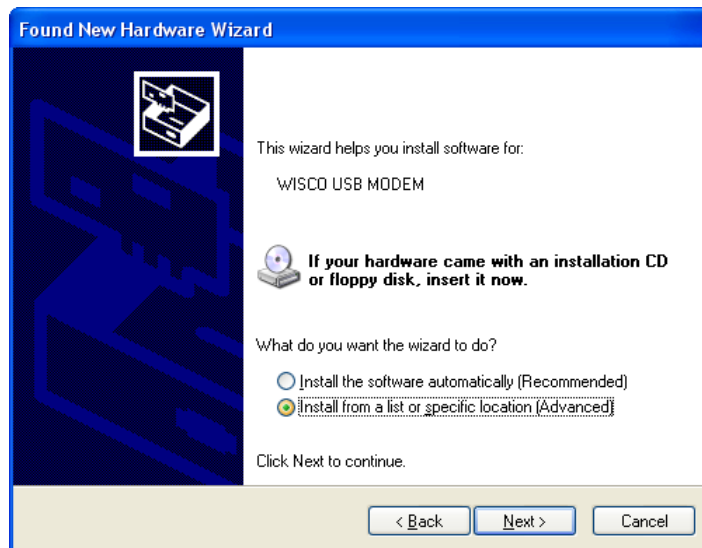
- ❖ Supply power to RC37 before connect to USB port
- ❖ For the first time used driver of USB Port must be installed as detail

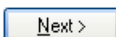
### 1.1 Install Driver USB

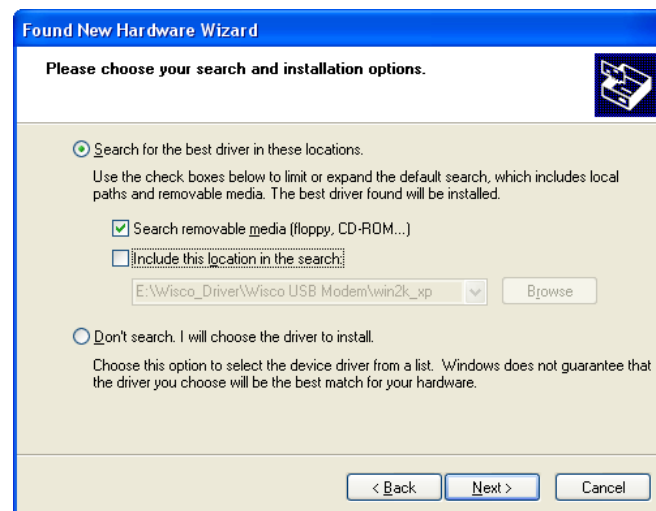
Driver USB of RC37 can be found on CD or Company website

[www.wisco.co.th/main/downloads](http://www.wisco.co.th/main/downloads)

- ❖ Insert CD to CD/DVD-ROM
- ❖ Turn on power of RC37
- ❖ Connect USB between PC computer and RC37
- ❖ Wait until "Found New Hardware Wizard" pop up

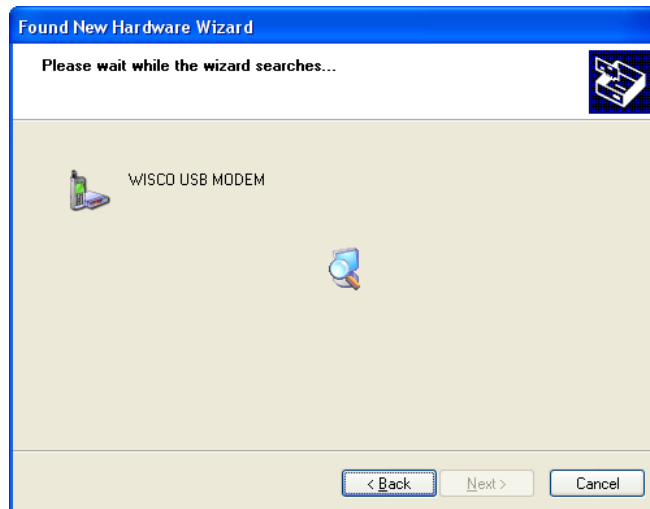


- ❖ Check on ☒ Install from a list or specific location (Advanced) then click 



- ❖ click ☒ Search removable media (floppy, CD-ROM...) then click 

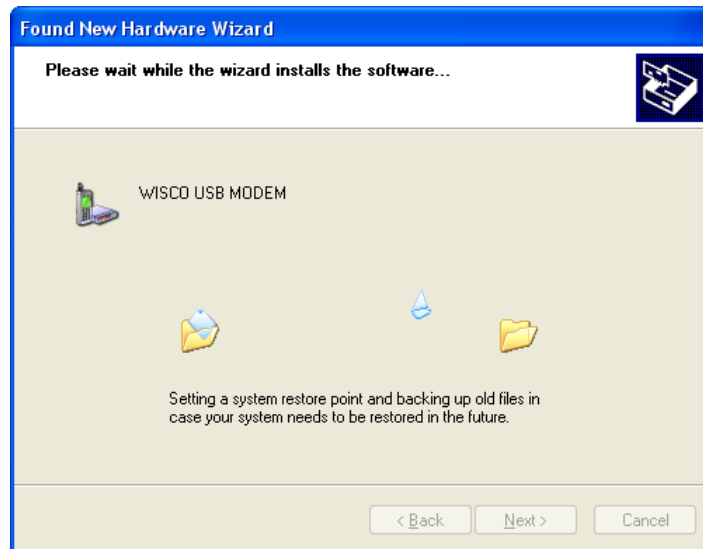
- ❖ Wait for Windows to finish searching



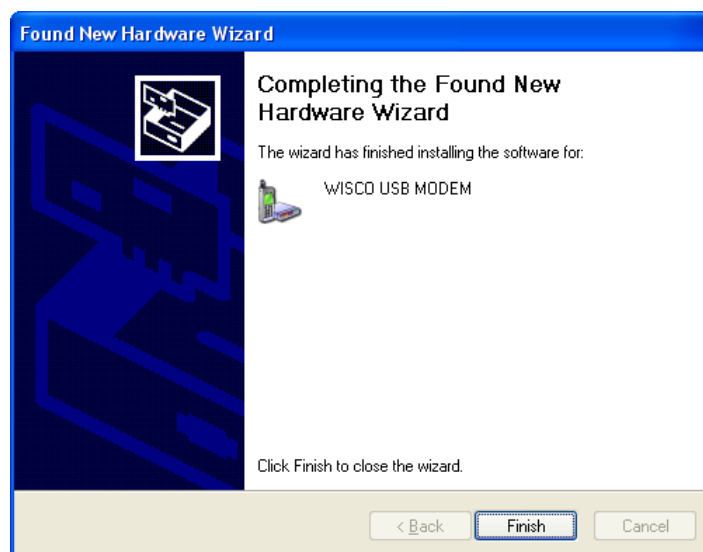
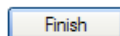
- ❖ "Hardware Installation" window show then click



❖ Windows loading USB driver to computer PC

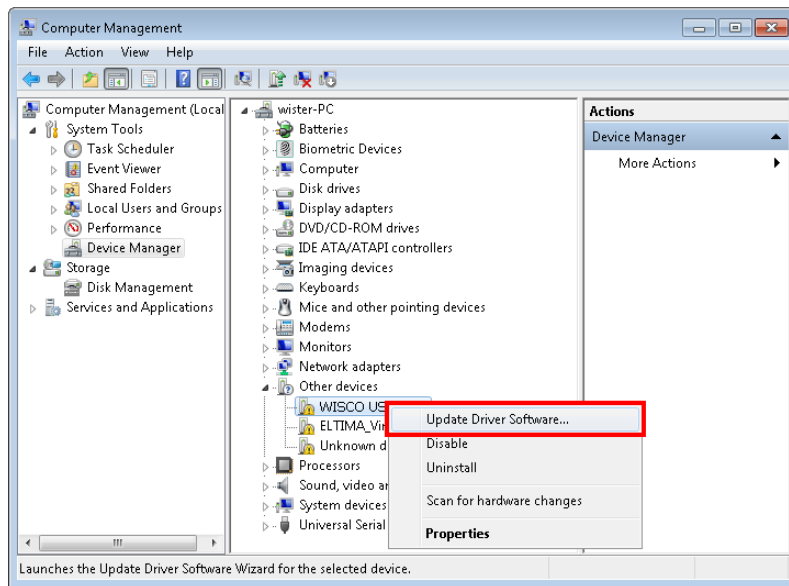



❖ "Completing the Found New Hardware Wizard" show up then click

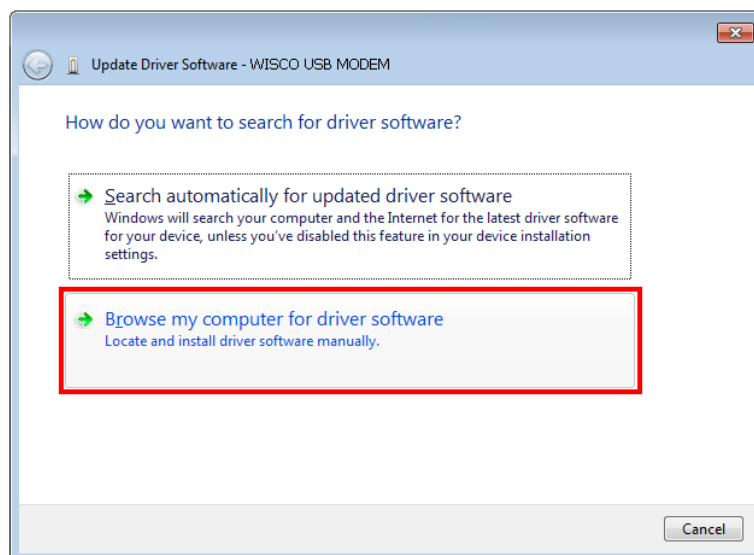


### For Windows 7 และ Windows 8 operation

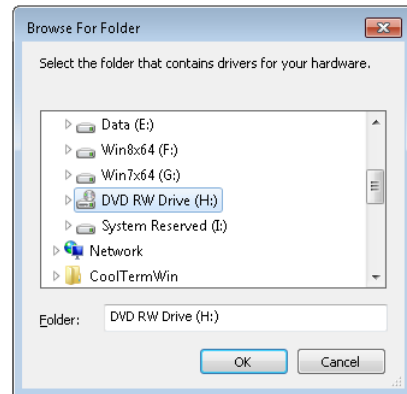
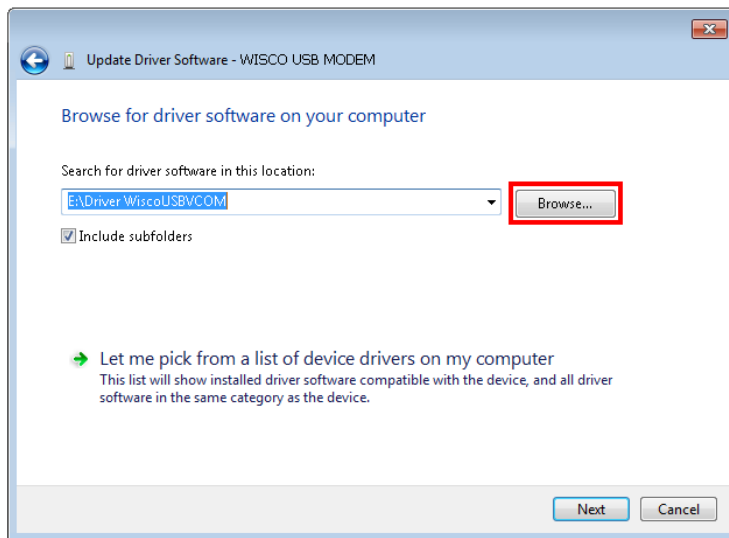
- ❖ Insert CD to CD/DVD-ROM
- ❖ Turn on module power
- ❖ Connect USB between RC37 and Computer PC
- ❖ Click Start -> Control Panel -> System -> Device Manager or right click on My Computer choose Manage click on Device Manager topic (For Windows 8 click Start -> Setting -> Control Panel -> System -> Device Manager)

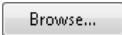
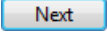


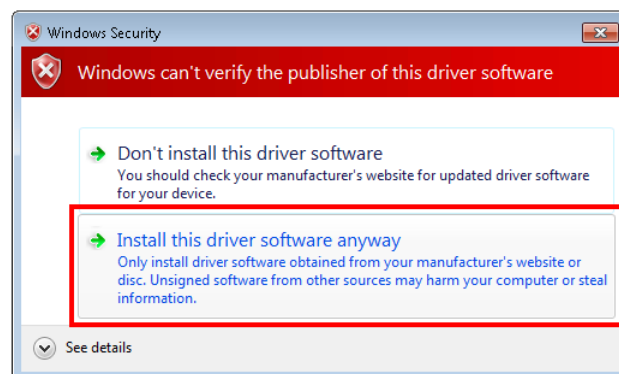
- ❖ Right click  WISCO USB MODEM and choose Update Driver Software...



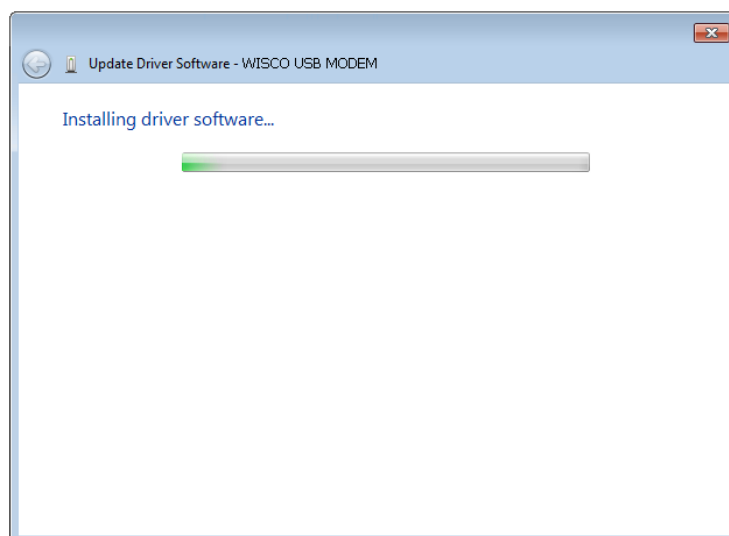
- ❖ Click on "Browse my computer for driver software"



❖ Then click  and choose "Driver WiscoUSBVCOM" then click 

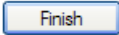


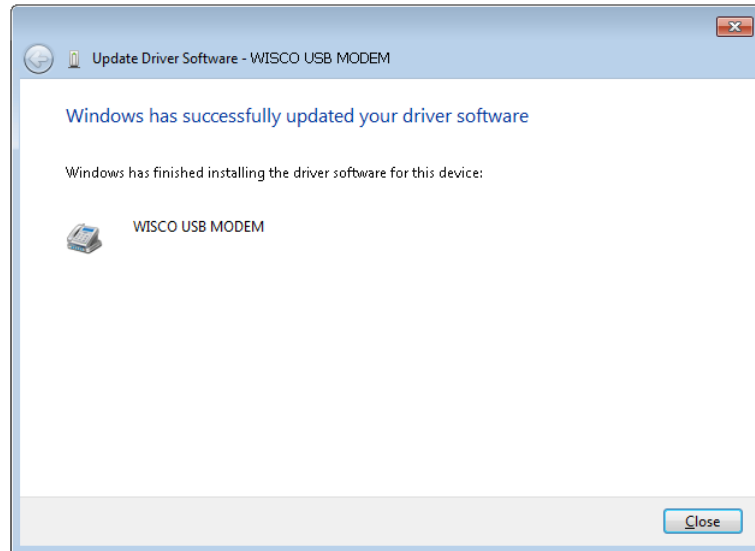
❖ In case of "Windows Security" show up then click Install this driver software anyway



❖ Windows will load USB driver to computer



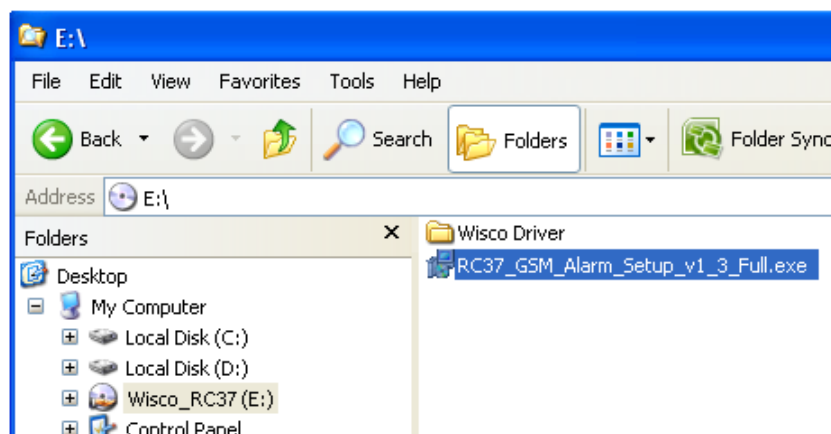
- ❖ Wait until "Completing the Found New Hardware Wizard" show up then click 



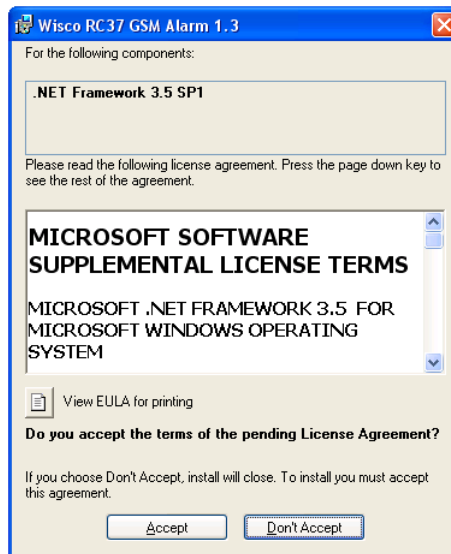
## 1.2 Install Wisco RC37 GSM Alarm Program

Wisco RC37 Utility can be download from 2 places

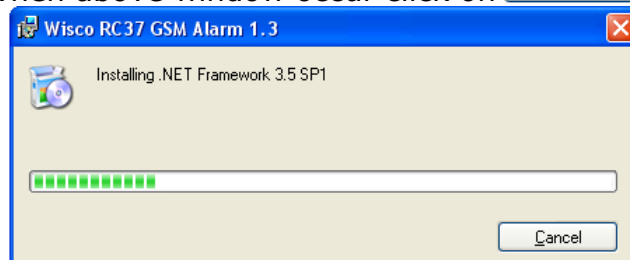
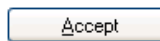
- ❖ Company website [www.wisco.co.th/main/downloads](http://www.wisco.co.th/main/downloads)  
(RC37\_GSM\_Alarm\_Setup\_v1\_3.exe)
- ❖ From CD which come with RC37 Install process:
  - Insert CD to CD/DVD-ROM
  - Open RC37\_GSM\_Alarm\_Setup\_v1\_3\_Full.exe



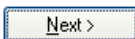
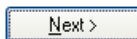
If computer has not been install Microsoft .NET Framework 3.5,  
below pop up will show

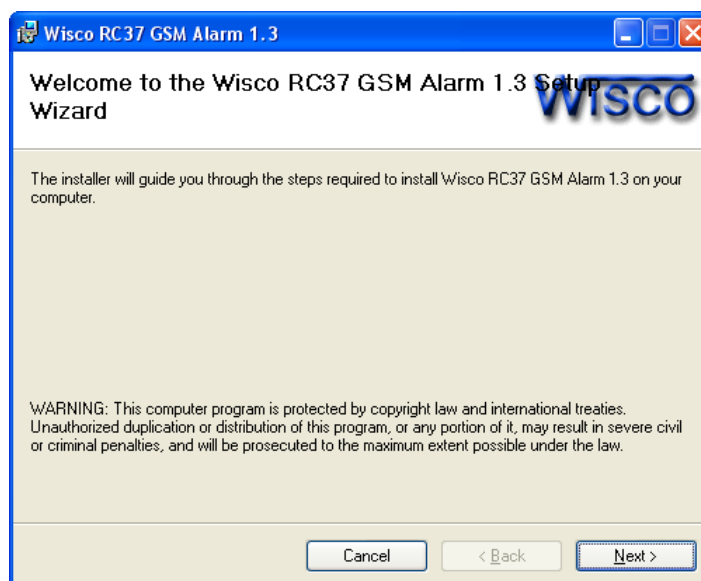


When above window occur click on



Microsoft .NET Framework 3.5

After finish install Microsoft .NET Framework 3.5 window for install Wisco RC37  
Utility 1.3 will appear then click  continue click  until install  
process has been done



### Program location

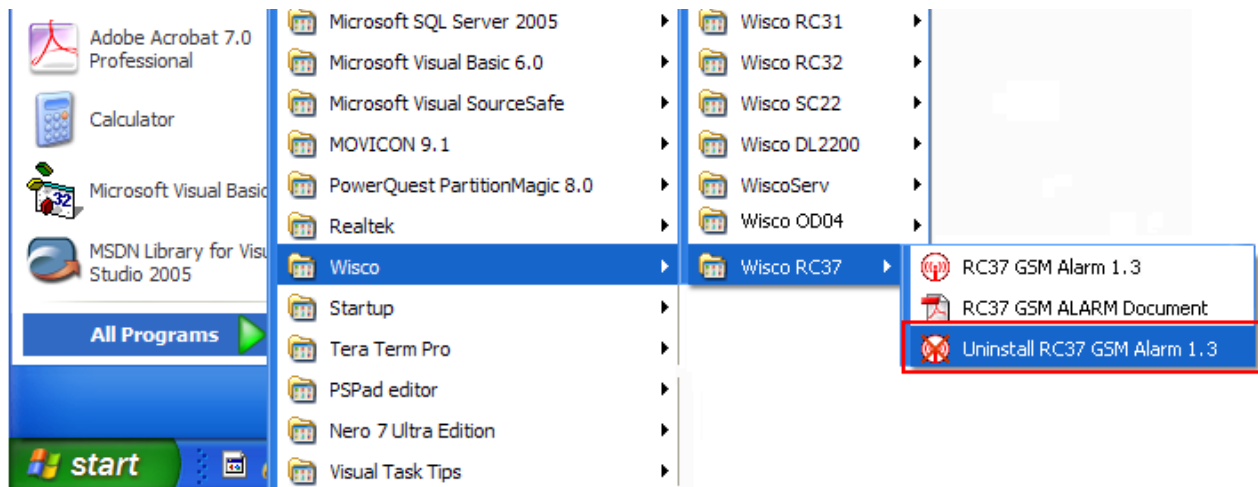
[Windows Drive] > Program Files > Wisco > Wisco GSM Alarm > RC37 GSM Alarm 1.3

### Program short cut for Wisco RC37 GSM Alarm 1.3 location

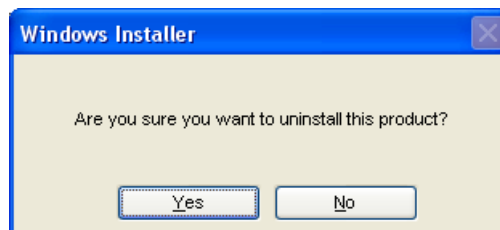
Start > All Programs > Wisco > Wisco RC37 > RC37 GSM Alarm 1.3

## 1.3 Uninstall Wisco RC37 GSM Alarm

Go to start -> All Programs -> Wisco -> Wisco RC37 -> Uninstall RC37 GSM Alarm 1.3



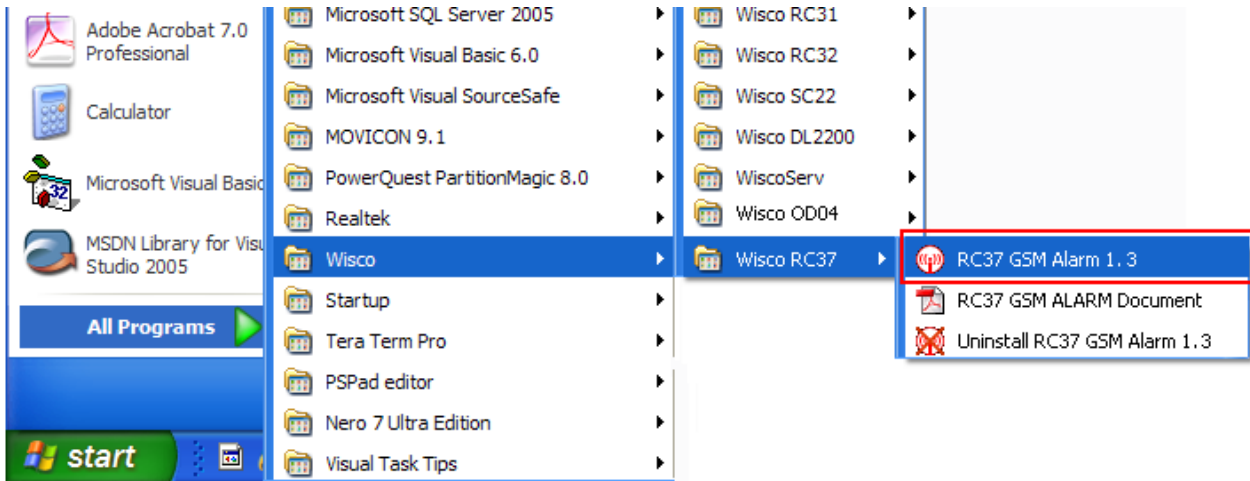
❖ Click  to confirm uninstall process



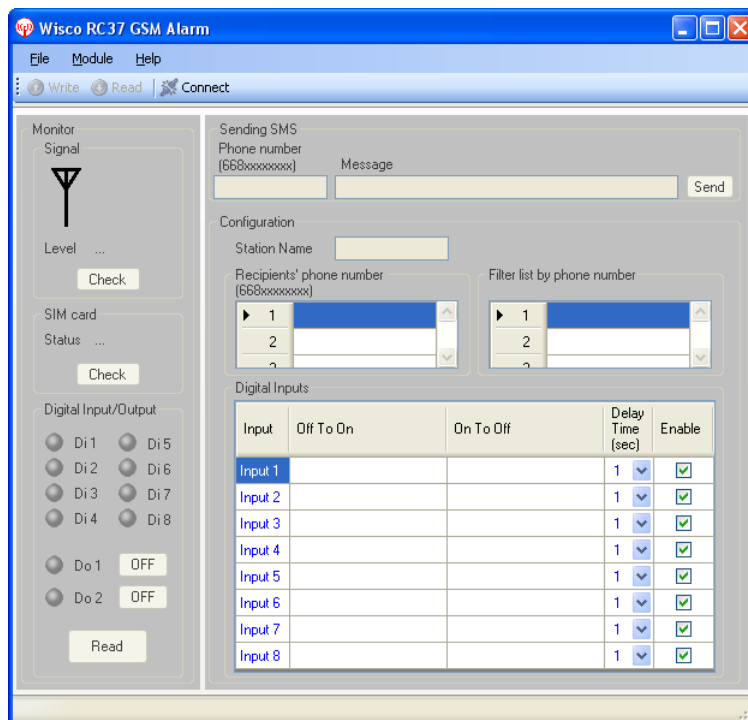
❖ Wait until uninstall process has been done

#### 1.4 Run Wisco RC37 GSM Alarm program

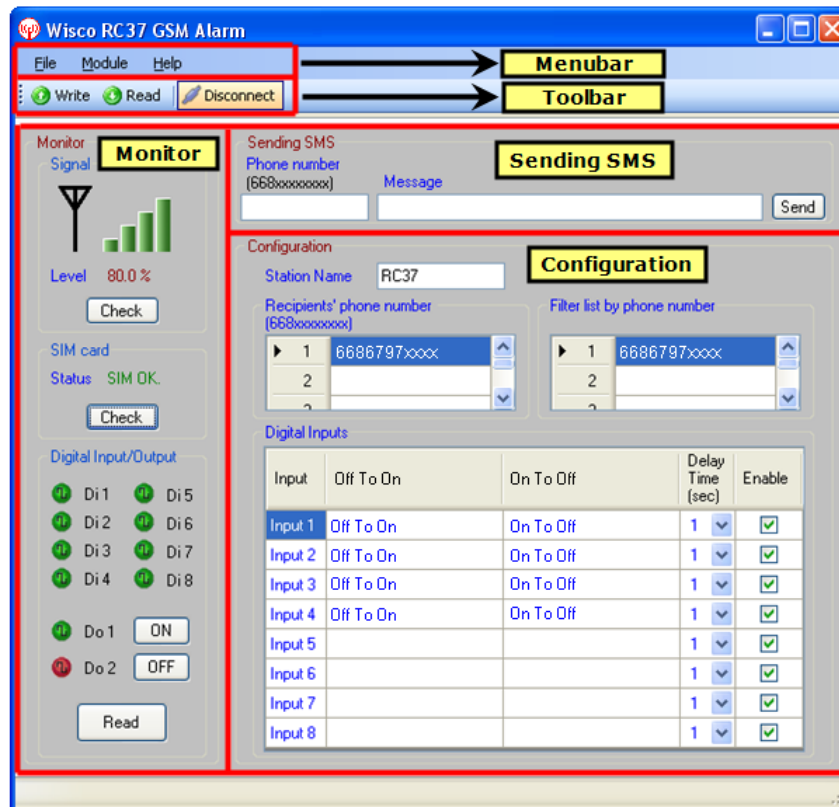
Go to start -> All Programs -> Wisco -> Wisco RC37 -> RC37 GSM Alarm  
1.3



Window of Wisco RC37 GSM Alarm

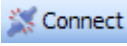
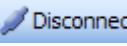


## 2. Connect between Wisco RC37 Utility and RC37



### Connect



Click  to connect RC37 if connect process succeeds buttons will change to 

### Disconnect



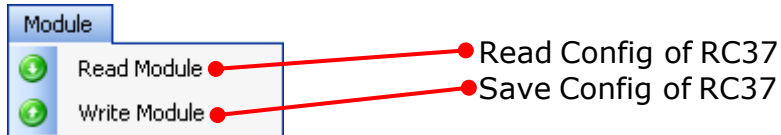
Click  if successfully disconnect button will change to 

### 3. Using Menu and Toolbar

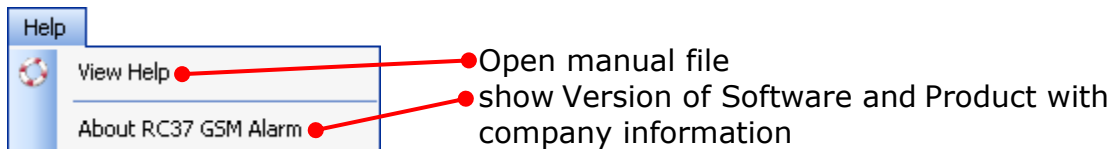
#### 3.1 File



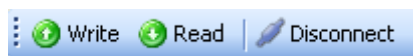
#### 3.2 Module



#### 3.3 Help



#### 3.4 Toolbar

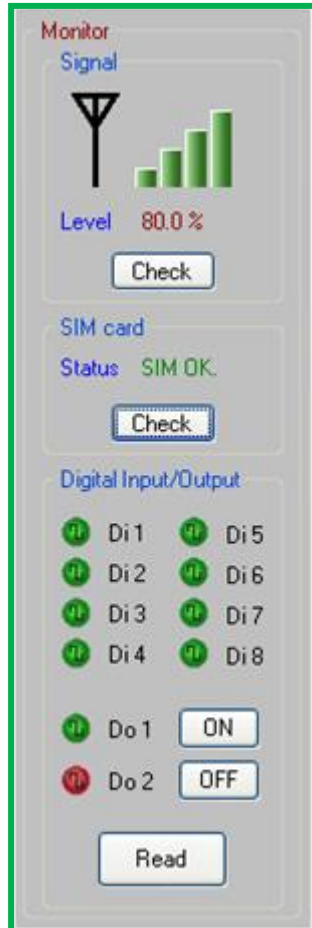


- |                             |                              |
|-----------------------------|------------------------------|
| ❖ <b>Write</b>              | Save Config of RC37          |
| ❖ <b>Read</b>               | Read Config of RC37          |
| ❖ <b>Connect/Disconnect</b> | Connect or Disconnect module |

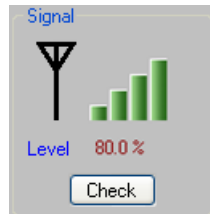
## 4. Program

### 4.1 Monitor

Monitor show all status



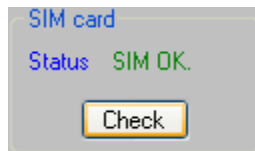
#### ❖ Test strength of the signal



click  to check signal strength it will as percentage and bar (5 bar is maximum level)

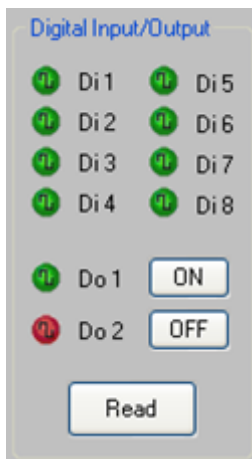
#### ❖ SIM card status

Click  to check SIM card status



- **SIM OK** SIM Card is ready
- **SIM isn't Ready** SIM is not OK

#### ❖ Check for Input and Output status



Click  to show input and output Status

- Digital Input is "On"
- Digital Input is "Off"

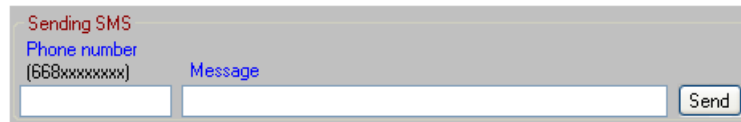
#### ❖ Output status



To Control Output

- Click  Output digital change from "ON" to "OFF"
- Click  Output digital change from "OFF" to "ON"

## 4.2 Sending SMS

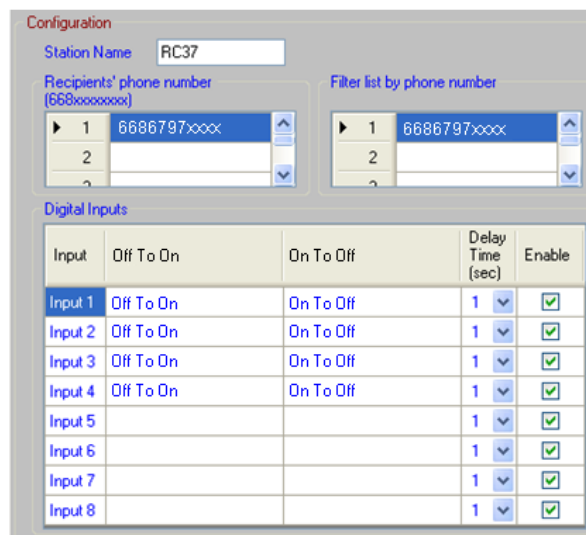


The 'Sending SMS' window contains two input fields: 'Phone number (668xxxxxxx)' and 'Message'. A 'Send' button is located to the right of the message field.

Sending SMS for sending SMS to desire mobile phone for testing

- ❖ **International Phone number** country code must be put in for example : 6681123xxxx
- ❖ **Message** fill in the message
- ❖ **Click**  to send SMS

## 4.3 Configuration



The 'Configuration' window includes the following sections:

- Station Name:** A text field containing 'RC37'.
- Recipients' phone number (668xxxxxxx):** A list box with three entries: 1 (6686797xxxx), 2, and 3.
- Filter list by phone number:** A list box with three entries: 1 (6686797xxxx), 2, and 3.
- Digital Inputs:** A table with 8 rows (Input 1 to Input 8) and 5 columns: Input, Off To On, On To Off, Delay Time (sec), and Enable.

Input	Off To On	On To Off	Delay Time (sec)	Enable
Input 1	Off To On	On To Off	1	<input checked="" type="checkbox"/>
Input 2	Off To On	On To Off	1	<input checked="" type="checkbox"/>
Input 3	Off To On	On To Off	1	<input checked="" type="checkbox"/>
Input 4	Off To On	On To Off	1	<input checked="" type="checkbox"/>
Input 5			1	<input checked="" type="checkbox"/>
Input 6			1	<input checked="" type="checkbox"/>
Input 7			1	<input checked="" type="checkbox"/>
Input 8			1	<input checked="" type="checkbox"/>

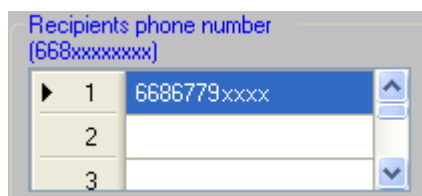
Configuration for set up

- ❖ **Station Name** is name of Module (in English only) which will be send with the message when alarms (15 alphabets)



A text field labeled 'Station Name' containing the value 'RC37'.

- ❖ **Recipients' phone number** Phone number that would like to receive SMS when alarm message send (Maximum 15 phone numbers)



A list box titled 'Recipients' phone number (668xxxxxxx)' showing three entries: 1 (6686779xxxx), 2, and 3.



- ❖ **Filter list by phone number** they are indicate the phone number that will SMS to RC37 in order to controlling digital output (Max 10 digits). We recommend that user should fill in both local and international phone number for example, local number in Thailand 089689xxxx and international phone number would start with country code which 66 for Thailand therefore phone number would be 6689689xxxx. We recommend user should fill in both 089689xxxx and 6689689xxxx.

### ❖ Digital Inputs

Input	Off To On	On To Off	Delay Time (sec)	Enable
Input 1	Off To On	On To Off	1	<input checked="" type="checkbox"/>
Input 2	Off To On	On To Off	1	<input checked="" type="checkbox"/>
Input 3	Off To On	On To Off	1	<input checked="" type="checkbox"/>
Input 4	Off To On	On To Off	1	<input checked="" type="checkbox"/>
Input 5			1	<input checked="" type="checkbox"/>
Input 6			1	<input checked="" type="checkbox"/>
Input 7			1	<input checked="" type="checkbox"/>
Input 8			1	<input checked="" type="checkbox"/>

- **Input** Input name (Fix)
- **Off to On** is alarm message when input status change from Off to On (Max 50 alphabets)
- **On to Off** is alarm message when input status change from On to Off (Max 50 alphabets)
- **Delay Time (sec)** indicate interval time. Status must be change and stay equal or more than interval time in order to count as alarm (Range 1 – 60 sec.)
- **Enable** to Enable or disable input

## 5. To control Digital Output and checking status of Input/Output

RC37 has function of controlling digital output and checking Input/output status via SMS

### 5.1 Control Output

Controlling digital Output by sending following message:

- ❖ Digital Output --> ON write SMS "DO1=ON" or "DO2=ON"
- ❖ Digital Output --> OFF write SMS "DO1=OFF" or "DO2=OFF"
- ❖ To control both Output, must put "," between each command such as "DO1=OFF,DO2=ON" or "DO2=OFF,DO1=ON"

After sending the command SMS RC37 will response

- ❖ "DO1 have controlled by the RC37." When DO1 command is complete
- ❖ "DO1 and DO2 have controlled by the RC37." when DO1 DO2 commands are complete

### 5.2 Checking Input/Output Status

To check Input/output status write SMS "RC37: QUERY" after sending SMS

to RC37 it will response as:

STATION NAME:

DI1: x

DI2: x

DI3: x

DI4: x

DI5: x

DI6: x

DI7: x

DI8: x

DO1: x

DO2: x

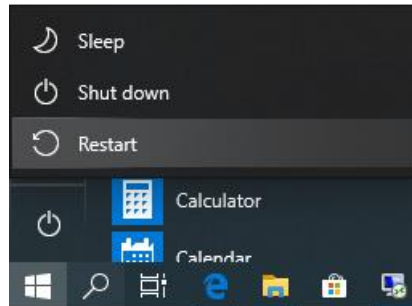
when

STATION NAME	Indicate Name of RC37
DI1-DI8	Digital Input
DO1, DO2	Digital Output
x	is current status of each INPUT/OUTPUT

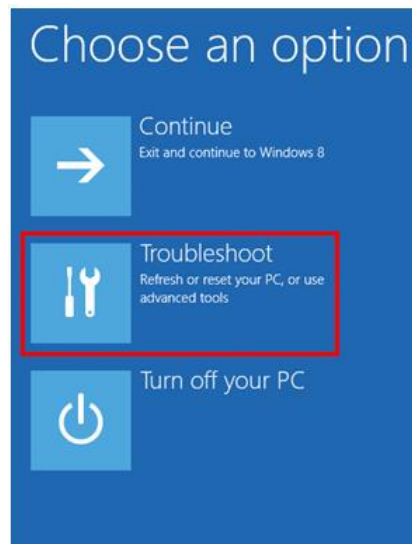
## Appendix

### A. How to solve when USB Driver unable to install (Windows 8, 8.1)

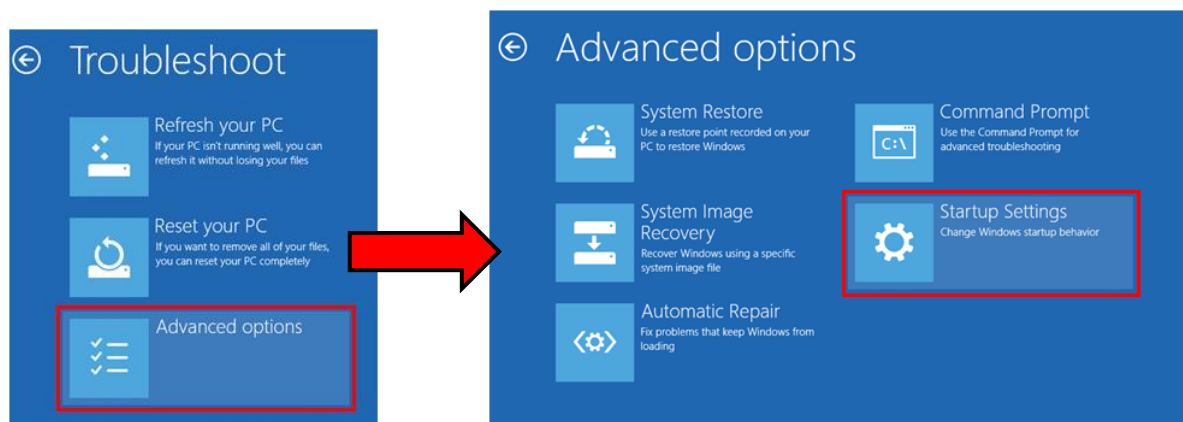
First user need to turn off Driver license. It can be done by:



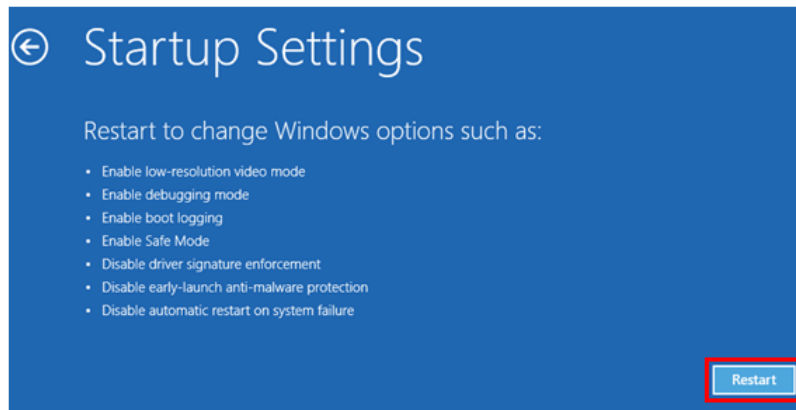
- 1) Press Start button, and then click the icon for Restart and Shut down. Now, press and hold Shift key when you choose Restart.



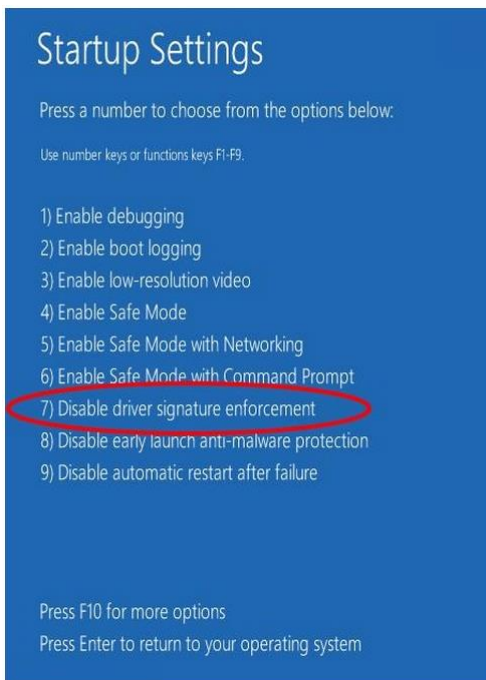
- 2) Then click "Troubleshoot"



- 3) Choose "Advance Option" click "Startup Settings"



4) Then click 



5) After Restart program, "Startup Settings" window will come up click F7 button or click on number 7 at Keyboard for choosing topic 7 "Disable driver signature enforcement"

6) Then computer will restart again then try to install USB Driver one more time

**Edit: 14/07/2023**